



REPUBLIC OF THE PHILIPPINES
NATIONAL POWER CORPORATION
(Pambansang Korporasyon sa Elektrisidad)

BID DOCUMENTS

Name of Project : SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF 15kV AUTOMATIC CIRCUIT RECLOSERS AND KILOWATT-HOUR DEMAND METERS FOR ALMAGRO MINI GRID DIESEL POWER PLANTS

Project Location : VARIOUS DPPs UNDER ALMAGRO MINI GRID

PR No. : S2-MGA22-001

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Design and Development Department



SECTION I

INVITATION TO BID



National Power Corporation

INVITATION TO BID

PUBLIC BIDDING – BCS 2022-0312

1. The NATIONAL POWER CORPORATION (NPC), through its approved Corporate Budget of CY 2022 intends to apply the sum of (Please see schedule below) being the Approved Budget for the Contract (ABC) to payments under the contract. Bids received in excess of the ABC shall be automatically rejected at Bid opening.

PR Nos./PB Ref No. & Description	Similar Contracts	Pre-bid Conference	Bid Submission / Opening	ABC/ Amt. of Bid Docs
S1-VDP22-001 / PB220321-NA00155 (PB2) Supply, Delivery, Installation and Test of Automatic Circuit Recloser for Viga DPP	Supply, delivery, installation, testing and commissioning of Automatic Circuit Recloser (at least 15kV) or substation equipment	31 May 2022 9:30 A.M	13 June 2022 9:30 A.M	₱ 1,550,000.00 / ₱ 5,000.00
S1-MQN22-004 / PB220613-RA00157 Supply of Two (2) Year Security Services for SPUG Marinduque and Quezon Area Plants and Installations <i>• Note: The ABC advertised / posted is for One (1) Year Only</i>	Security services for various facilities (businesses, commercial or industrial), for protection of personnel, equipment and building assets	31 May 2022 9:30 A.M	13 June 2022 9:30 A.M	₱ 7,193,054.52 / ₱ 10,000.00
S2-MGA22-001 / PB220613-NA00158 Supply, Delivery, Installation, Testing and Commissioning of 15kV Automatic Circuit Reclosers and Kilowatt-Hour Demand Meters for Almagro Mini Grid Diesel Power Plants	Supply, delivery, installation, testing and commissioning of Automatic Circuit Recloser (at least 15kV) or substation equipment	31 May 2022 9:30 A.M	13 June 2022 9:30 A.M	₱ 8,089,000.00 / ₱ 10,000.00
S3-B0822-005 / PB220613-JC00159 Supply and Delivery of Various Mechanical Spare Parts of 6DK-32 (7.2 MW) Daihatsu Genset for PB 108	Supply and Delivery of Diesel Generating Sets or Mechanical and/or Electrical Parts / Components / Equipment for Diesel Generating Sets	31 May 2022 9:30 A.M	13 June 2022 9:30 A.M	₱ 18,987,460.00 / ₱ 25,000.00

S1-CAT22-007 / PB220615-SV00160 Supply and Delivery of Mechanical Security Parts for Various Cummins Gensets under Bicol Operations Division	Supply and Delivery of Diesel Generating Sets or Mechanical and/or Electrical Parts / Components / Equipment for Diesel Generating Sets	01 June 2022 9:30 A.M	15 June 2022 9:30 A.M	P 1,343,618.99 / P 5,000.00
S1-CAT22-008 / PB220615-SV00161 Supply and Delivery of Electrical Security Parts for Various Cummins Gensets under Bicol Operations Division	Supply and Delivery of Diesel Generating Sets or Mechanical and/or Electrical Parts / Components / Equipment for Diesel Generating Sets	01 June 2022 9:30 A.M	15 June 2022 9:30 A.M	P 2,127,000.00 / P 5,000.00
S1-CAT22-009 / PB220615-SV00162 Supply and Delivery of Electrical Security Parts for Various Perkins Gensets under Bicol Operations Division	Supply and Delivery of Diesel Generating Sets or Mechanical and/or Electrical Parts / Components / Equipment for Diesel Generating Sets	01 June 2022 9:30 A.M	15 June 2022 9:30 A.M	P 1,742,000.00 / P 5,000.00
Venue: Kañao Function Room, NPC Bldg. Diliman, Quezon City				

2. The NPC now invites bids for Items listed above. Delivery of the Goods is required (see table below) specified in the Technical Specifications. Bidders should have completed, within (see table below) from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. (Instruction to Bidders).

PR No/s. / PB Ref No/s.	Delivery Period / Contract Duration	Relevant Period of SLCC reckoned from the date of submission & receipt of bids
S1-VDP22-001	Ninety (90) Calendar Days	Ten (10) Years
S1-MQN22-004	Two (2) Years Contract	Five (5) Years
S2-MGA22-001	One Hundred Eighty (180) Calendar Days	Ten (10) Years
S3-B0822-005	Sixty (60) Calendar Days	Ten (10) Years
S1-CAT22-007	Sixty (60) Calendar Days	Ten (10) Years
S1-CAT22-008	Sixty (60) Calendar Days	Ten (10) Years
S1-CAT22-009	Sixty (60) Calendar Days	Ten (10) Years

3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183.

4. Prospective Bidders may obtain further information from National Power Corporation, Bids and Contracts Services Division and inspect the Bidding Documents at the address given below during office hours (8:00AM to 5:00PM), Monday to Friday.
5. A complete set of Bidding Documents may be acquired by interested Bidders from the given address and website(s) and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB. Bidding fee may be refunded in accordance with the guidelines based on the grounds provided under Section 41 of R.A. 9184 and its Revised IRR.
6. The National Power Corporation will hold Pre-Bid Conference (see table above) and/or through video conferencing or webcasting which shall be open to prospective bidders.

Only registered bidder/s shall be allowed to participate for the conduct of virtual pre-bid conference. **Unregistered bidders** may attend the Pre-Bid Conference at the Kañao Room, NPC subject to the following:

- a. Only a maximum of two (2) representatives from each bidder / company shall be allowed to participate during the virtual pre-bid conference.
 - b. A "No Face mask / No Entry" policy shall be implemented in the NPC premises. Face mask shall be 3-ply surgical or KN95 mask type.
 - c. The requirements herein stated including the medium of submission shall be subject to GPPB Resolution No. 09-2020 dated 07 May 2020
 - d. The Guidelines on the Implementation of Early Procurement Activities (EPA) shall be subject to GPPB Circular No. 06-2019 dated 17 July 2019
7. Bids must be duly received by the BAC Secretariat through (i) manual submission at the office address indicated below; (ii) online or electronic submission before the specified time stated in the table above for opening of bids. Late bids shall not be accepted.
 8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 14.
 9. Bid opening shall be on Kañao Function Room, NPC Head Office, Diliman, Quezon City and/or via online platform to be announced by NPC. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
 10. The National Power Corporation reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of R.A. No. 9184, without thereby incurring any liability to the affected bidder or bidders.

11. For further information, please refer to:

**Bids and Contracts Services Division,
Logistics Department**

BIR Road cor. Quezon Avenue

Diliman, Quezon City

Tel Nos.: 8924-5211 and 8921-3541 local 5611/5504

Fax No.: 8922-1622

Email: bcsd@napocor.gov.ph / bcsd_napocor@yahoo.com

12. You may visit the following websites:

For downloading of Bidding Documents: <https://www.napocor.gov.ph/bcsd/bids.php>



ATTY. ROGEL T. TEVES
Vice President, Power Engineering Services and
Chairman, Bids and Awards Committee

SECTION II

INSTRUCTIONS TO BIDDERS

SECTION II – INSTRUCTIONS TO BIDDERS**TABLE OF CONTENTS**

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SECTION II – INSTRUCTIONS TO BIDDERS

1. Scope of Bid

The National Power Corporation (NPC or NAPOCOR) wishes to receive Bids for the **SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF 15kV AUTOMATIC CIRCUIT RECLOSERS AND KILOWATT-HOUR DEMAND METERS FOR ALMAGRO MINI GRID POWER PLANTS**, with identification number **PR No S2-MGA22-001**.

The Procurement Project (referred to herein as "Project") is composed of one (1) lot and will be awarded to one (1) Bidder in one complete contract, the details of which are described in Section VII (Technical Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below for CY 2021 in the amount of **₱ 8,089,000.00**.

2.2. The source of funding is the Corporate Operating Budget of the National Power Corporation.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or IB by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

The Procuring Entity, as well as the Bidders and Suppliers, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex "I" of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

SECTION II – INSTRUCTIONS TO BIDDERS

5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. Foreign ownership exceeding those allowed under the rules may participate when citizens, corporations, or associations of a country, included in the list issued by the GPPB, the laws or regulations of which grant reciprocal rights or privileges to citizens, corporations, or associations of the Philippines.

The foreign bidder claiming eligibility by reason of their country's extension of reciprocal rights to Filipinos shall submit a certification from the relevant government office of their country stating that Filipinos are allowed to participate in their government procurement activities for the same item/product. The said certification shall be validated during the post-qualification of bidders.

- 5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to at least fifty percent (50%) of the ABC.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

6. Origin of Goods

There is no restriction on the origin of goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN, subject to Domestic Preference requirements under ITB Clause 18.

7. Subcontracts

- 7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than twenty percent (20%) of the Project.

The portions of Project and the maximum percentage allowed to be subcontracted are indicated in the **BDS**, which shall not exceed twenty percent (20%) of the contracted Goods.

- 7.2. The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in ITB Clause 5 to the implementing or end-user unit.
- 7.3. Subcontracting of any portion of the Project does not relieve the Supplier of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Supplier's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

SECTION II – INSTRUCTIONS TO BIDDERS

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address and/or through videoconferencing/webcasting as indicated in paragraph 6 of the IB.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the IB, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents comprising the Bid: Eligibility and Technical Components

10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in Section VIII (NPCSF-GOODS-01 - Checklist of Technical and Financial Documents).

10.2. The Bidder's SLCC as indicated in ITB Clause 5.3 should have been completed within Ten (10) Years prior to the deadline for the submission and receipt of bids.

10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

10.4. The Statement of the bidder's Single Largest Completed Contract (SLCC) (NPCSF-GOODS-03) and List of all Ongoing Government & Private Contracts Including Contracts Awarded but not yet Started (NPCSF-GOODS-02) shall comply with the documentary requirements specified in the BDS.

11. Documents comprising the Bid: Financial Component

11.1. The second bid envelope shall contain the financial documents for the Bid as specified in Section VIII (NPCSF-GOODS-01 - Checklist of Technical and Financial Documents).

11.2. If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with Section 43.1.3 of the 2016 revised IRR of RA No. 9184.

11.3. Any bid exceeding the ABC indicated in paragraph 1 of the IB shall not be accepted.

11.4. For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

SECTION II – INSTRUCTIONS TO BIDDERS

12. Bid Prices

12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:

- a. For Goods offered from within the Procuring Entity's country:
 - i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);
 - ii. The cost of all customs duties and sales and other taxes already paid or payable;
 - iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
 - iv. The price of other (incidental) services, if any, listed in the **BDS**.
- b. For Goods offered from abroad:
 - i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.
 - ii. The price of other (incidental) services, if any, as listed in the **BDS**.

13. Bid and Payment Currencies

13.1. For Goods that the Bidder will supply from outside the Philippines, the bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies, shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

13.2. Payment of the contract price shall be made in Philippine Pesos.

14. Bid Security

14.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

14.2. The Bid and bid security shall be valid for **One Hundred Twenty (120) calendar days** from the date of opening of bids. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

SECTION II – INSTRUCTIONS TO BIDDERS

15. Sealing and Marking of Bids

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

16. Deadline for Submission of Bids

16.1. The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the IB.

17. Opening and Preliminary Examination of Bids

17.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the IB. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

17.2. The preliminary examination of bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

18. Domestic Preference

18.1. The Procuring Entity will grant a margin of preference for the purpose of comparison of Bids in accordance with Section 43.1.2 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*," using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.

19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by ITB Clause 14 shall be submitted for each lot or item separately.

SECTION II – INSTRUCTIONS TO BIDDERS

- 19.3. The descriptions of the lots or items shall be indicated in **Section VI (Technical Specifications)**, although the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.
- 19.4. The Project shall be awarded to one (1) Bidder in one complete contract.
- 19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

20. Post-Qualification

- 20.1. Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

- 21.1. The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

SECTION III

BID DATA SHEET

SECTION III – BID DATA SHEET

SECTION III - BID DATA SHEET

ITB Clause	
5.3	<p>For this purpose, similar contracts shall refer to supply, delivery, installation, testing and commissioning of Automatic Circuit Recloser (at least 15kV) or substation equipment.</p> <p>The Single Largest Completed Contract (SLCC) as declared by the bidder shall be verified and validated to ascertain such completed contract. Hence, bidders must ensure access to sites of such projects/equipment to NPC representatives for verification and validation purposes during post-qualification process.</p> <p>It shall be a ground for disqualification, if verification and validation cannot be conducted for reasons attributable to the Bidder.</p>
7.1	<p>Subcontracting may be allowed on transport, local/non-skilled labor under the supervision of the Bidder. The Bidder shall not be relieved from any liability or obligation that may arise from the performance of the Subcontractor.</p>
10.4	<p>The list of on-going contracts (Form No. NPCSF-GOODS-02) shall be supported by the following documents for each on-going contract to be submitted during Post-Qualification:</p> <ol style="list-style-type: none"> 1. Contract/Purchase Order and/or Notice of Award 2. Certification coming from the project owner/client that the performance is satisfactory as of the bidding date <p>The bidder shall declare in this form all his on-going government and private contracts including contracts where the bidder (either as individual or as a Joint Venture) is a partner in a Joint Venture agreement other than his current joint venture where he is a partner. Non declaration will be a ground for disqualification of bid.</p> <p>The Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid (Form No. NPCSF-GOODS-03) shall be supported by the following documents to be submitted during Bid Opening:</p> <ol style="list-style-type: none"> 1. Contract/Purchase Order 2. Certificate of Acceptance; or Certificate of Completion; or Official Receipt (O.R); or Sales Invoice <p>The prospective bidders shall declare its Joint Venture partner during the purchase of bid/tender documents. Any single bidder/s who already procured/secured the bidding documents but want to avail the Joint Venture Agreement (JVA) shall inform the BAC in writing prior to the bid opening for records and documentation purposes. Failure to do so shall be a ground for disqualification/non-acceptance of its bid.</p>

10.5	<p>Bidders shall also submit the following requirements in their first envelope, Eligibility and Technical Component of their bid:</p> <ol style="list-style-type: none"> 1. Data and Information to be submitted with the Bid/Proposal as specified in Clause TS-10.0(a) of Section VI - Technical Specifications; 2. Complete eligibility documents of the proposed sub-contractor, if any
12	The price of the Goods shall be quoted DDP Project Site or the applicable International Commercial Terms (INCOTERMS) for this Project.
14.1	<p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:</p> <ol style="list-style-type: none"> a) The amount of not less two percent (2%) of ABC, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or b) The amount of not less than five percent (5%) of ABC, if bid security is in Surety Bond.
19.3	<p>The Goods are grouped together in one (1) lot and will be awarded to one (1) Bidder in one complete contract.</p> <p>Partial bid is not allowed. The Goods are grouped in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.</p> <p>The Bidders bid offer must be within the ABC of the lot.</p> <p>Bid offers that exceed the ABC of the lot or with incomplete price, shall be rejected.</p>
19.5	If the Bidder opted to submit a Committed Line of Credit (CLC), the bidder must submit a granted credit line valid/effective at the date of bidding.
20.1	<p>Additional documents to be submitted during Post-Qualification:</p> <ol style="list-style-type: none"> a. Contract/Purchase Order and/or Notice of Award for the contracts stated in the List of all Ongoing Government & Private Contracts Including Contracts Awarded but not yet Started (NPCSF-GOODS-02); b. Certification coming from the project owner/client that the performance is satisfactory as of the bidding date for all ongoing contracts stated in Form NPCSF-GOODS-02; c. Documents to be submitted during post-qualification process as specified in Clause TS-10.0(b) of Section VI-Technical Specifications <p>Manufacturer's brochures, manuals and other supporting documents of equipment, materials, hardware and tools proposed by the bidders must comply with the technical specifications of such equipment, materials, hardware and tools. It shall be a ground for disqualification if the submitted</p>

SECTION III – BID DATA SHEET

	<p>brochures, manuals and other supporting documents are determined not complying with the specifications during technical evaluation and post-qualification process.</p> <p>Equipment, materials, hardware and tools proposed by the winning bidder to be supplied, which were evaluated to be complying with the technical specifications, shall not be replaced and must be the same items to be delivered/installed/used during the contract implementation. Any proposed changes/replacement of said items may be allowed on meritorious reasons subject to validation and prior approval by NPC.</p>
20.2	The licenses and permits relevant to the Project and the corresponding law requiring it as specified in the Technical Specifications, if any.
21.2	Notice to Proceed.

SECTION IV

GENERAL CONDITIONS OF CONTRACT

SECTION IV – GENERAL CONDITIONS OF CONTRACT

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SECTION IV – GENERAL CONDITIONS OF CONTRACT

1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

Additional requirements for the completion of this Contract shall be provided in the **Special Conditions of Contract (SCC)**.

2. Advance Payment and Terms of Payment

- 2.1. Advance payment of the contract amount is provided under Annex "D" of the revised 2016 IRR of RA No. 9184.
- 2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the **SCC**.

3. Performance Security

- 3.1. Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184.
- 3.2. The performance bond to be posted by the Contractor must also comply with additional requirements specified in the **SCC**.

4. Inspection and Tests

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the **SCC, Section VI (Technical Specifications)** shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be

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conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

All reasonable facilities and assistance for the inspection and testing of Goods, including access to drawings and production data, shall be provided by the Supplier to the authorized inspectors at no charge to the Procuring Entity.

5. Warranty

5.1 In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 revised IRR of RA No. 9184.

5.2 The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

6. Liability of the Supplier

The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Supplier is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

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SECTION IV – SPECIAL CONDITIONS OF CONTRACT

GCC Clause	
1	<p>Delivery and Documents –</p> <p>The delivery terms applicable to the Contract is DDP delivered to the project site specified in the technical specifications, in accordance with INCOTERMS. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI – Technical Specifications. The details of shipping and/or other documents to be furnished by the Supplier are as follows:</p> <p><i>For Goods supplied from within the Philippines</i></p> <p>Upon delivery of the Goods to the Project Site, the Supplier shall notify the Procuring Entity and present the following documents to the Procuring Entity:</p> <ul style="list-style-type: none"> (i) Original and four copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount; (ii) Original and four copies of Supplier's factory test/inspection report; (iii) Original and four copies of the certificate of origin (for imported Goods); (iv) Delivery receipt detailing number and description of items received signed by the Procuring Entity's representative at the Project Site; (v) Certificate of Completion/Inspection Report signed by the Procuring Entity's representative at the Project Site; (vi) Original and four copies of the Inspection Receiving Report signed by the Procuring Entity's representative at the Project Site; (vii) Original and four copies of the Manufacturer's and/or Supplier's warranty certificate; and (viii) Documents specified in the Technical Specifications, if any. <p><i>For Goods supplied from abroad:</i></p> <p>Upon shipment, the Supplier shall notify the Procuring Entity and the insurance company by e-mail the full details of the shipment, including Contract Number, description of the Goods, quantity, vessel, bill of lading number and date, port of loading, date of shipment, port of discharge etc. Upon delivery to the Project Site, the Supplier shall notify the Procuring Entity and present the following documents as applicable with the documentary requirements of any letter of credit issued taking precedence:</p>

SECTION V – SPECIAL CONDITIONS OF CONTRACT

	<p>(i) Original and four copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;</p> <p>(ii) Original and four copies of the negotiable, clean shipped on board bill of lading marked "freight pre-paid" and five copies of the non-negotiable bill of lading ;</p> <p>(iii) Original and four copies of Supplier's factory test/inspection report;</p> <p>(iv) Delivery receipt detailing number and description of items received signed by the Procuring Entity's representative at the Project Site;</p> <p>(v) Certificate of Completion/Inspection Report signed by the Procuring Entity's representative at the Project Site;</p> <p>(vi) Original and four copies of the Inspection Receiving Report signed by the Procuring Entity's representative at the Project Site;</p> <p>(vii) Original and four copies of the certificate of origin (for imported Goods); and</p> <p>(viii) Original and four copies of the Manufacturer's and/or Supplier's warranty certificate including all other documents specified in the Technical Specifications, if any.</p> <p>For purposes of this Clause the Procuring Entity's Representative at the Project Site is Vice President - SPUG.</p> <p>Incidental Services –</p> <p>The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <p>a. performance or supervision of on-site assembly and/or start-up of the supplied Goods;</p> <p>b. furnishing of tools required for assembly and/or maintenance of the supplied Goods;</p> <p>c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;</p> <p>d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and</p> <p>e. training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.</p>
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SECTION V – SPECIAL CONDITIONS OF CONTRACT

- f. Additional requirements specified in Section VI – Technical Specifications, if any.

The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

Spare Parts –

The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

1. such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and
2. in the event of termination of production of the spare parts:
 - i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and
 - ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested

The spare parts and other components required are listed in **Section VI (Technical Specifications)** and **Section VII (Schedule of Requirements/Bid Price Schedule)** and the costs thereof are included in the contract price.

The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for the period specified in the Technical Specifications.

Spare parts or components shall be supplied as promptly as possible, but in any case, within three (3) months of placing the order.

Packaging –

The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging 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.

The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly

SECTION V – SPECIAL CONDITIONS OF CONTRACT

	<p>provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.</p> <p>The outer packaging must be clearly marked on at least four (4) sides as follows:</p> <p>Name of the Procuring Entity Name of the Supplier Contract Description Final Destination Gross weight Any special lifting instructions Any special handling instructions Any relevant HAZCHEM classifications</p> <p>A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.</p> <p>Transportation –</p> <p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.</p> <p>Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.</p> <p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure.</p> <p>The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p>
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	<p>Intellectual Property Rights –</p> <p>The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.</p>
2.2	<p>Advance payment not to exceed fifteen percent (15%) of the contract amount shall be allowed and paid within sixty (60) calendar days from effectivity of the contract and upon the submission to and acceptance by the Procuring Entity of an irrevocable letter of credit or bank guarantee issued by a Universal or Commercial Bank. The irrevocable letter of credit or bank guarantee must be for an equivalent amount, shall remain valid until the goods are delivered, and accompanied by a claim for advance payment.</p> <p>All progress payments shall first be charged against the advance payment until the latter has been fully exhausted.</p> <p>The terms of payment shall be as follows:</p> <p>1) For Supply and Delivery Contracts:</p> <p>(a) On Contract Effectivity: Advance payment of Fifteen percent (15%) of the total Contract Price shall be paid within sixty (60) days from effectivity of the Contract and upon submission of a claim and an irrevocable letter of credit or bank guarantee issued by a Universal or Commercial Bank for the equivalent amount valid until the Goods are delivered and in the form provided in Section VIII- Bidding Forms.</p> <p>(b) On Delivery: Eighty percent (80%) of the Contract Price of the delivered Goods shall be considered for payment, less the total amount of advance payment, if any and other deductions. If the amount is sufficient to fully recoup the advance payment, the remainder after deductions shall be paid to the Supplier within sixty (60) days after the date of receipt of the Goods and upon submission of the documents (i) through (vi) specified in the <u>SCC</u> provision on Delivery and Documents. Otherwise, the total delivery payment shall be charged against the advance payment and the remaining advance payment will be fully recouped from the succeeding claims.</p> <p>(c) On Acceptance: The remaining twenty percent (20%) of the Contract Price of the delivered Goods shall be paid to the Supplier within sixty (60) days after the date of submission of the acceptance and inspection certificate for the respective delivery issued by the Procuring Entity's authorized representative. In the event that no acceptance certificate is issued by the Procuring Entity's authorized representative within forty five (45) days after successful test and commissioning, if required, the Supplier shall have the right to claim payment of the remaining twenty percent (20%) subject to the Procuring Entity's own verification of the reason(s) for the failure to issue documents (vii) and (viii) as described in the <u>SCC</u> provision on Delivery and Documents.</p>

SECTION V – SPECIAL CONDITIONS OF CONTRACT

2) For Supply, Delivery, Installation, Test and Commissioning Contracts:

- (a) On Contract Effectivity: Advance payment of Fifteen percent (15%) of the total Contract Price shall be paid within sixty (60) days from effectivity of the Contract and upon submission of a claim and an irrevocable letter of credit or bank guarantee issued by a Universal or Commercial Bank for the equivalent amount valid until the Goods are delivered and in the form provided in Section VIII- Bidding Forms.
- (b) On Delivery: Eighty percent (80%) of the price of the **delivered Goods**, excluding price for installation, test and commissioning shall be considered for payment, less the total amount of advance payment, if any and other deductions. If the amount is sufficient to fully recoup the advance payment, the remainder after deductions shall be paid to the Supplier within sixty (60) days after the date of receipt of the Goods and upon submission of the documents (i) through (vi) specified in the SCC provision on Delivery and Documents. Otherwise, the total delivery payment shall be charged against the advance payment and the remaining advance payment will be fully recouped from the succeeding claims.
- (c) On Acceptance: The remaining twenty percent (20%) of the price of the **delivered Goods** plus price for installation, test and commissioning shall be paid to the Supplier within sixty (60) days after the date of submission of the acceptance and inspection certificate for the respective delivery issued by the Procuring Entity's authorized representative. In the event that no acceptance certificate is issued by the Procuring Entity's authorized representative within forty five (45) days after successful test and commissioning, the Supplier shall have the right to claim payment subject to the Procuring Entity's own verification of the reason(s) for the failure to issue documents (vii) and (viii) as described in the SCC provision on Delivery and Documents.

3) For Supply, Delivery, Installation, Test and Commissioning Contracts where Installation, Test and Commissioning prices are included in the supply price:

- (a) On Contract Effectivity: Advance payment of Fifteen percent (15%) of the total Contract Price shall be paid within sixty (60) days from effectivity of the Contract and upon submission of a claim and an irrevocable letter of credit or bank guarantee issued by a Universal or Commercial Bank for the equivalent amount valid until the Goods are delivered and in the form provided in Section VIII- Bidding Forms.
- (b) On Delivery: Sixty percent (60%) of the price of the **delivered Goods** shall be considered for payment, less the total amount of advance payment, if any and other deductions. If the amount is sufficient to fully recoup the advance payment, the remainder after deductions shall be paid to the Supplier within sixty (60) days after the date of receipt of the Goods and upon submission of the documents (i) through (vi) specified in the SCC provision on Delivery and Documents. Otherwise, the total delivery payment shall be charged against the advance

SECTION V – SPECIAL CONDITIONS OF CONTRACT

	<p>payment and the remaining advance payment will be fully recouped from the succeeding claims.</p> <p>(c) On Acceptance: The remaining forty percent (40%) of the price of the delivered Goods shall be paid to the Supplier within sixty (60) days after the date of submission of the acceptance and inspection certificate for the respective delivery issued by the Procuring Entity's authorized representative. In the event that no acceptance certificate is issued by the Procuring Entity's authorized representative within forty five (45) days after successful test and commissioning, the Supplier shall have the right to claim payment subject to the Procuring Entity's own verification of the reason(s) for the failure to issue documents (vii) and (viii) as described in the <u>SCC</u> provision on Delivery and Documents</p>
3.2	<ol style="list-style-type: none"> 1. The following must be indicated in the performance bond to be posted by the Contractor: <ol style="list-style-type: none"> i. Company Name ii. Correct amount of the Bond iii. Contract/Purchase Order Reference Number iv. Purpose of the Bond: "To guarantee the faithful performance of the Principal's obligation to undertake <u>(Contract/Purchase Order Description)</u> in accordance with the terms and conditions of <u>(Contract No. & Schedule/Purchase Order No.)</u> entered into by the parties." 2. The bond shall remain valid and effective until the duration of the contract <u>(should be specific date reckoned from the contract effectivity)</u> plus sixty (60) days after NPC's acceptance of the last delivery/final acceptance of the project. 3. In case of surety bond, any extension of the contract duration or delivery period granted to the CONTRACTOR shall be considered as given, and any modification of the contract shall be considered as authorized, as if with the expressed consent of the surety, provided that such extension or modifications falls within the effective period of the said surety bond. However, in the event that the extension of the contract duration or delivery schedule would be beyond the effective period of the surety bond first posted, it shall be the sole obligation of the CONTRACTOR to post an acceptable Performance Security within ten (10) calendar days after the contract duration/delivery period extension has been granted by NPC. 4. Other required conditions in addition to the standard policy terms issued by the Bonding Company: <ol style="list-style-type: none"> i. The bond is a penal bond, callable on demand and the entire amount thereof shall be forfeited in favor of the Obligor upon default of the Principal without the need to prove or to show grounds or reasons for demand for the sum specified therein; ii. The amount claimed by the Obligor under this bond shall be paid in full and shall never be subject to any adjustment by the Surety;

	iii. In case of claim, the Surety shall pay such claim within sixty (60) days from receipt by the Surety of the Obligee's notice of claim/demand letter notwithstanding any objection thereto by the Principal.
4	The inspections and tests that will be conducted are specified in the Technical Specifications.

SECTION VI

TECHNICAL SPECIFICATIONS

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Section VI – Technical Specifications

PART I – TECHNICAL SPECIFICATIONS

TS-1.0 GENERAL

This specification covers the technical requirements for the ***Supply, Delivery, Installation, Testing and Commissioning of 15kV Automatic Circuit Reclosers and Kilowatt-hour Demand Meters for Almagro Mini Grid Diesel Power Plants.***

All supplied instruments and accessories shall be new and unused. They shall be suitable for the intended purpose and shall comply with all applicable regulations, quality, and dimension standards.

The Supplier shall accept full responsibility for his work including documentation, preparation for shipment, inspection, warranty provisions and compliance with the applicable codes and standards and the requirements of this Specification.

TS-2.0 SCOPE OF WORK AND DELIVERY LOCATION

The scope of work covers the ***Supply, Delivery, Installation, Testing and Commissioning of 15kV Automatic Circuit Reclosers and Kilowatt-hour Demand Meters with the necessary Bus Conductor and Line Hardware including dismantling of the existing equipment for the following Diesel Power Plants under Almagro Mini Grid:***

- a. Biasong DPP, Brgy. Biasong I, Almagro, Western Samar
- b. Costa Rica DPP, Brgy. Costa Rica II, Almagro, Western Samar
- c. Lunang DPP, Brgy. Lunang I, Almagro, Western Samar
- d. Kirikite DPP, Brgy. Kirikite, Almagro, Western Samar

The Supplier shall bear full responsibility that the equipment has been designed and fabricated in accordance with all codes, standards, and applicable governmental regulations and performs under the conditions and to the standards specified herein.

The equipment to be furnished shall be complete, with all parts in excellent working conditions, of new and high-grade materials and produced with first class workmanship. All materials though not expressly called for in this Specification but are necessary for the complete and proper operation of the automatic circuit reclosers shall be furnished by the Supplier at no additional cost to NPC.

The Supplier shall be responsible for visiting the delivery site and take particular reference to its accessibility, means of transportation and all other factors that could hamper the smooth execution of the contract.



TS-3.0 DELIVERY PERIOD

The delivery period shall be ***One Hundred Eighty (180) Calendar Days*** reckoned from receipt of Notice to Proceed.

TS-4.0 CODES AND STANDARD

The equipment furnished shall be in accordance with, but not limited to, the latest issues of the following codes and standards, including all addenda, in effect at time of purchase order unless otherwise stated in this specification:

1. American National Standards Institute	ANSI
2. Institute of Electrical and Electronic Engineers	IEEE
3. American Society for Testing and Materials	ASTM
4. National Electrical Manufacturer's Association	NEMA
5. Underwriters Laboratory	UL
6. International Electro-Technical Commission	IEC
7. International Standards Organization	ISO
8. National Electrical Code	NEC
9. National Electrical Safety Code	NESC
10. Philippine Electrical Code	PEC
11. Illuminating Engineering Society	IES
12. Philippine National Standards	PNS

The latest edition of each standard shall mean the latest edition available at the date of contract signing.

In addition to the above codes and standards mentioned, the Supplier shall comply with all National and local laws, codes, regulations, statutes and ordinances.

Equipment or materials meeting other internationally accepted standards, which ensure an equal or higher quality than the standards mentioned, will also be accepted.

In the event of any apparent conflict among standards, codes or this specification, the Supplier shall refer the conflict to NPC for written resolution before start of fabrication. Final decision regarding the acceptance of proposed standards is the prerogative of NPC.

Standards listed in the equipment specification are used mainly for NPC's references. Other internationally known standards however, shall also apply, provided such standards are equivalent in all respect to the standard prescribed and to the specific requirements described in the individual equipment specification. The Supplier shall submit copies of such standards for NPC's review and approval.

TS-5.0 WORKMANSHIP

Workmanship shall be of first-class quality and in accordance with the best modern engineering practice for the manufacture, assembly, installation, testing and commissioning of equipment. All works shall be done by personnel skilled in the related professions and trades. All parts shall be



made accurately to standard gauges so as to facilitate replacement and repairs. All special gauges and templates necessary for field erection shall become the property of NPC.

The parts or components shall be designed and arranged so that they can be easily inspected, cleaned, erected, and dismantled without involving large scale dismantling. They shall be designed and manufactured in accordance with the latest recognized rules of workmanship and modern engineering practice.

The Supplier shall be responsible with all damages occurred during the dismantling and installation works. Existing equipment that will be damaged shall be replaced by the Supplier at no additional cost to NPC.

TS-6.0 AUTOMATIC CIRCUIT RECLOSER

TS-6.1 General

The Automatic Circuit Recloser shall have rated characteristics as specified in the Technical Data Sheets (Part II of the Technical Specification).

The Automatic Circuit Recloser shall be mechanically and electrically trip free. Any applied close signal, either mechanically or electrically, shall not inhibit the recloser from tripping on the programmed time-current curve.

A manual operating handle shall be provided including an indicator flag for contact position indication.

Close and trip capacitors shall be used to store the necessary energy for operating the recloser. Only the close capacitor energy shall be used for closing while both capacitors are available for opening. Trip energy shall be available following any electrical close.

TS-6.2 Interrupting Medium

The interrupting medium shall be vacuum type.

TS-6.3 Insulation Medium

Environmentally friendly cycloaliphatic epoxy or equivalent shall be used as dielectric medium. SF6 gas shall not be used.

TS-6.4 Housing Materials

The tank shall be manufactured from a hot-dipped galvanized steel, 316 stainless or cast aluminum. Control cubicles shall be manufactured from 316 stainless steel. All support structures and associated bolts and nuts shall be hot dipped galvanized.

TS-6.5 Mounting

The Automatic Circuit Recloser shall be suitable for single and double pole/H-frame mounting.



All recloser tanks are to be supplied with standard pole mounting brackets fixed to the rear of the tank. The bracket shall be designed to ensure that the recloser live parts have statutory clearances from the pole and the earthed metal equipment.

The brackets and tank wall are to be of adequate strength to limit distortion, when mounted. Both the top and bottom bracket shall be suitable to carry the total weight of the tank.

A detailed drawing of the Auto-recloser mounting arrangement shall be submitted together with the proposal. The minimum phase-to-earth clearance including clearance to the structure shall be indicated on the drawing.

TS-6.6 Control Cabinet

The control cabinet shall be designed for the service condition specified, and fitted with substantial door securing devices.

The control shall be housed in a weatherproof steel cabinet (IP 65) with a padlockable internally hinged door and shall include a thermostatically controlled heater.

The control cabinet shall be mounted below the tank and shall be connected by a minimum of 20m long multi-core control cable. The multi-core cable shall be ultra violet stabilized and adequately screened against electrostatic and electromagnetic interference, which can cause malfunctioning of the protection or control equipment. This cable shall connect into both the recloser and the control cabinet by means of plug and socket arrangement.

TS-6.7 Earthing

Earthing terminals shall be fitted to equipment. An earthing strap shall be provided between the lid and the tank.

TS-6.8 Surge Arrester Bracket

Surge arrester bracket shall be provided for the arrester mounting which will serve as the connection point for the arrester earth. The brackets shall have an unpainted corrosion resistant metal connecting zone which has the capability to conduct surge arrester current.

TS-6.9 Marking and Nameplates

Phase identification marking shall be provided on each bushing of the Auto circuit recloser.

A nameplate shall be provided using a non-ferrous material or stainless steel, with the following information:

- a. Manufacturer's Name
- b. Serial No.
- c. Rated Maximum Voltage



- d. Rated Continuous Current
- e. Rated Interrupting Current
- f. Rated Impulse Withstand Voltage

TS-6.10 Operating Mechanism

A low voltage system supplied from a battery or voltage transformer may be used to operate a closing mechanism. Tripping energy shall be supplied from a spring mechanism automatically tensioned when the recloser is closed.

Internal batteries used to operate closing mechanism shall not dependent on recloser load current to maintain its state of charge.

The recloser shall incorporate provision to be manually operated using a standard operating stick in the event of failure in the electrical control system.

TS-6.11 Bushing

The HV bushing shall be of high-quality glazed porcelain, or cycloaliphatic epoxy resin having a creepage length as specified in the Technical Data Sheet.

The Supplier shall provide bird guards for insulation protection between the load side and line side bushings.

TS-6.12 Current Transformer

A sensing multi-ratio bushing current transformer for use with the recloser control and protection functions shall be an integral part of the recloser.

They shall be of class and ratio adequate to ensure they do not saturate under fault conditions up to the full rated interrupting current.

Current transformers shall be thermally rated to the recloser current rating regardless of the ratio selected.

TS-6.13 Auxiliary Supply

The operating power shall be supplied from an external 240 VAC. A 12Vdc battery with sufficient ampere hour shall be provided for back up control operation in the event of loss of primary supply. The battery shall be capable of operating the control for a minimum of 48 hours. If the primary supply has not been restored within the allowable discharge time of the battery, the control shall automatically shut down. The cable for the external auxiliary supply of approx. 20 m long shall be included in the contract.

TS-6.14 Control Design Features

The design of the control shall include the following:

- a. Relay Module
- b. CPU Module
- c. Power Supply Module



- d. Communication Interface Module
- e. Front Operating & Display Module
- f. Ethernet/USB/Wi-fi/Fiber Optic/RS 232 Communication Module

The panel includes an LCD that shall allow customizable display for viewing operational data of the control. The LCD shall include complete metering information including all current, voltage and power values along with trip values for all profiles. All modules should be replaceable on site without removing the recloser controller unit.

Local Control and Indication

The recloser shall be equipped with the following local operation features through push-buttons operation:

- 1. Trip (with no reclosing)
- 2. Close (Single Shot)
- 3. Auto reclose ON/OFF
- 4. Local remote operation
- 5. View trip Sequences and status information

SCADA Operation and Indication

The recloser is required to be controlled and operated using a remote compatible PC with phone modem and applicable software via DNP 3.0 communication protocol.

As a minimum requirement, the following controls and indications shall be provided to the Remote SCADA system using the above protocol:

Control and Indication

- a. Tripping and closing
- b. Enable and disable automatic sequences (reclosing)
- c. Enable and disable protection
- d. Change protection setting
- e. Reset fault flags and currents
- f. Read and display metering data including a summary page
- g. Read the operation counter
- h. Read the event recorder and display at least 5000 events in time sequence complete with feeder current at the time of the event
- i. Display a summary page which shows the number of fault trips since it was last reset
- j. Examine recloser/control system malfunction alarms
- k. Read all existing recloser settings
- l. Switch status (open/close) indications
- l. Trip sequences and status information i.e., Protective device and sequence which initiated the trip, date and time, Interrupted current, etc.
- m. Buzzer Alarm Trip, Open/Close and Trip Alarm Indications
- n. Hotline Tag should be configurable in the control panel for safety and protection of personnel during off-line maintenance work.



TS-6.15 Sequence of Operation

In the event of fault on the line controlled by the recloser, the recloser shall automatically open, and after a minimum dead time, it shall automatically reclose and remain closed should the fault along the line is cleared.

In case the fault persists, the recloser shall again disconnect the line being controlled. The recloser shall be capable of not less than three automatic reclose operations at rated short circuit current should the fault persist and then lock out in the open position until reset by hand or remote control.

If the fault is of a transient in nature, the equipment shall remain closed, and the operating mechanism shall automatically reset.

The number of operations to lockout shall be adjustable in any combination of instantaneous and time-delayed trips up to a minimum of four with a minimum dead time of 0.5 seconds for the first operations.

The Automatic Circuit Recloser shall be mechanically and electrically trip free. Any applied close signal, either mechanically or electrically, shall not inhibit the recloser from tripping on the programmed time-current curve.

Close and trip capacitors shall be used to store the necessary energy for operating the recloser. Only the close capacitor energy shall be used for closing while both capacitors are available for opening. Trip energy shall be available following any electrical close operation.

TS-6.16 Protection

The Automatic Circuit Recloser to be supplied shall be equipped with but not limited with the following protections:

- Directional Overcurrent and Earth Fault Protection
- Instantaneous and AC Time Overcurrent Protection
- Under/Over Voltage
- Under/Over Frequency
- Harmonics Protection,
- Negative Phase Sequence Protection
- Auto Change Over Protection

All and other protections specified in the Technical Data Sheets (TDS).

The controller shall include a sensitive ground/earth fault trip feature that will provide tripping of the recloser after a programmable, definite time for ground currents below normal ground minimum trip levels. The feature shall have a programmable operation to lockout and reclose intervals independent of the ground settings. This feature shall be independently selectable for each protection profile.

A sequence coordination feature shall be included to allow the control to step through selected operation in the operating sequence without tripping.

The control shall include a cold load pick up feature to prevent the control from tripping while energizing non fault system loads.

The Cold Load Pick up feature shall be able to be programmed IN or OUT of service.

TS-6.17 Safety Features

The control software shall have a programmable security code to limit access of control programming functions to authorized personnel.

TS-6.18 Metering

The control shall provide instantaneous and demand metering with programmable integration intervals for the following minimum functions:

1. Real, Reactive and Apparent Power for each phase and total
2. Power Factor for each phase and total
3. Voltage magnitude for each phase
4. Current Magnitude for each phase and neutral
5. Positive and Negative Sequence Voltages (magnitude and phase)
6. Positive, Negative and Zero Sequence Currents (magnitude and phase)
7. Power Quality Monitoring (TDD up 15th Harmonics, HDD Up to 15th Harmonics, Voltage Sags & Swells,)

TS-6.19 Event Recorder/Histogram

Event recorder shall be provided to record and store events in a non-volatile memory. The recorder shall include time and date of event and histogram features displays statistical information including tagged min/max values.

TS-6.20 Spares

The Supplier shall furnish a detailed list of required spares for two (2) years operations (if there's any) i.e., protection cards/boards, etc. with equivalent cost.

The list shall include relevant information on the availability and delivery of spare parts.

TS-6.21 Other Technical Requirements

TS-6.21.1 Operating and Configuration Editor Software Program

Laptop and all software and configuration editor software program including licenses shall be supplied and included in the cost of the equipment in Section IV - Schedule of Requirements of the Terms of Reference. A set of each type of software including licenses plus instruction manuals shall be provided by the Supplier.



All Recloser shall be properly configured, calibrated, and set at factory prior to delivery based on the desired initial pick up current trip setting requirement of each site at present and/or forecasted load data to be provided by SPUG.

TS-6.22 Training Requirements

The training requirements shall be as specified in the General Technical Requirements. The number of NPC personnel who will attend the training shall be at least three (3) plant personnel. The Supplier shall consider the training in the bid proposal and include in the cost of the equipment.

The Supplier shall provide training in the form of drawing instructions and/or audio visuals.

The training material shall include but not limited to the following topics:

1. Handling and Storage
2. Application
3. Installation, Operation and Maintenance
4. Environmental Performance
5. Electrical and Mechanical Performance
6. Basic Troubleshooting and Disposal

The following subject shall be discussed thoroughly with SPUG End-users and Technical Services Group:

1. Basic recloser features and operation
2. Field and remote-control operation
3. Interrogation for access of event data, recloser status, fault records and metering data
4. Fault finding
5. Application of protection and control settings/reconfigurations

The Supplier shall also provide local training regarding the proper use and maintenance of the equipment.

TS-6.23 Test and Inspection

The Supplier shall provide a test specification covering all tests on the Supplier's premises, successful completion, as deemed by NPC, of Inspection and Tests on Supplier's premises shall be a prerequisite to shipment of all materials, equipment, software or system(s). following successful completion of inspection and tests on his premises, the Supplier shall obtain the approval to proceed with the delivery of the equipment, materials, software or system(s) from NPC in accordance with the Technical Specification for the equipment.

Factory Acceptance and Test

Prior to shipping and final inspection, Factory Acceptance Test (FAT) shall be conducted by the Supplier at the manufacturer's plant and FAT Report shall be transmitted to NPC for evaluation.



Each unit shall be completely assembled and adjusted at the factory and perform the manufacturer's Routing, Shop Tests and other tests as specified herein. All parts shall be properly marked for ease of assembly in the field.

Test report on design and routine tests performed in accordance with ANSI/IEEE and/or IEC standard shall be submitted to NPC for evaluation and approval.

All test certificates shall include the manufacturer's serial number.

Type Test

The test to be performed shall be in accordance with the design test set out in Section 6 of ANSI/IEEE C37.60 and Section 5 of ANSI/IEEE C37.63. In addition, the electronic protection /control unit shall have been subject to the relevant impulse, and high frequency noise immunity tests specified in IEC 60255 or equivalent standard.

The recloser complete with control/protection component (including earths) as a composite unit shall have been tested for the rated impulse withstand level and for immunity against the effects of EMI and RFI.

Routine Test

Routine test shall be carried out and shall be in accordance with the production test set out in Section 7 of ANSI/IEEE C37.60.

TS-6.24 Packaging and Marking

Packaging

The reclosers shall be put in crate individually complete with components i.e. control cubicle, cables, accessories, etc. The equipment must be securely fastened to prevent movement during transport and handling.

The crates must be sufficiently sturdy for another shipping/transportation to SPUG-Palawan various plant sites.

A copy of instruction, operation and maintenance manual for the equipment shall be provided in a weatherproof bag inside each crate.

Marking

The following shall be legibly and indelibly marked on two (2) sides of the crate:

- a. Manufacturer:
- b. Contract No./Schedule/Site Delivery
- c. Purchase Items Identification Number
- d. Description of Contents and Gross Mass
- e. Handling or Lifting Instructions

TS-7.0 KILOWATT-HOUR DEMAND METER**TS-7.1 Technical Characteristics and Requirements**

The kilowatt-hour meter shall be furnished and installed by the Contractor as shown on the bid drawings complete with housing and associated metering instruments transformers (current and potential transformers) of appropriate burden and accuracy and other accessories for outdoor metering purposes. It shall be capable to measure the power generated by the plant and feedback power. It shall be designed to operate continuously for the normal life of the meter in an outdoor tropical location exposed to various elements which might affect the meter accuracy and reliability

The Kilowatt-hour meter shall have the following features:

1. Pilferage proof
2. Tamper Proof
3. Wrong Wiring Alarm
4. Current Flow display
5. Can withstand the temperature of -20°C to +70°C and Humidity of up to 95% non-condensing
6. With back light display
7. With built-in battery for LCD display and back-up battery
8. TOU Programmable Ready
9. Measure display (True RMS voltage, Current, Calendar, Time, etc.)

The kilowatt-hour meter and the required metering instruments shall be pole mounted and to be supplied complete with stainless steel bracket, bolts, etc. required for mounting onto flat-faced pole where pole drilling is permitted.

The Contractor shall submit for approval the brochures and/or catalogues with complete technical specification of the kilowatt-hour meter including instrument transformers and accessories to be supplied prior to delivery at site.

TS-8.0 BUS CONDUCTOR AND LINE HARDWARE

This specification covers the technical and associated requirements for stranded aluminum bus conductors and line hardware for use in various diesel power plant switchyards.

All line hardware/materials shall meet the performance requirements application criteria and manufacturing tolerances passed ANSI CB5. 1-1979 - America National Standard for Galvanized Steel Bolts and nuts for overhead line construction

TS-8.1 Technical Characteristics and Requirements

Describe herein is the general specification of the Bus conductor, line materials and equipment to be supplied for this project.

Stranded Conductor

All wires of the stranded conductor shall be concentrically stranded. The wires in each layer shall be evenly and closely stranded around the underlying wire(s). The tension in individual wires in a layer shall be sufficient to hold each wire firmly in place with only enough strand separation to prevent crowding at the time of stranding and during installation. All steel and aluminum wires shall lie naturally in their position in the stranded conductor and, when the core and/or the aluminum wires are cut, the wire ends shall remain in position or be readily replaced by hand and then remain approximately in position.

The aluminum shall be of the higher purity commercially obtainable which shall not be less than 99.5%. The type of conductor to be supplied shall be stated in the Technical Data Sheets and shall be manufactured according to the applicable ASTM or equivalent IEC standards.

The completed conductor shall be smooth, free from nick, burrs, aluminum or steel particles, dirt and excessive die grease. The conductor shall be absolutely free of copper dust and copper particles.

Insulators

Insulators to be utilized in the project shall be in accordance to ANSI Class 55-3 for pin, Class 52-1 for suspension, Class 53-2 and Class 53-4 for spool standard as to material, ultimate tensile strength, leakage, distance, etc.

TS-9.0

ACCEPTANCE CRITERIA

The Supplier shall perform at his own expense all inspection required to ensure adequacy of design, material, workmanship and conformance of the supplied instruments and accessories to the requirements of the specifications and standards.

The equipment/component shall be subjected to the Manufacturer's Standard Factory Tests prior to delivery.

Upon arrival of the instruments and accessories at delivery site, NPC and the Supplier or their authorized representatives, shall jointly verify the instruments and accessories following the steps below:

- a. Inspection and verification of the packing list;
- b. Visual inspection of the condition of the packing and its surfaces; and
- c. Partial opening of the crates/boxes and plastic sheet protection of instrument to verify the content and its physical condition and to check pilferage or damage during shipment and storage.

A record shall be prepared carefully noting all eventual shortages, defects or damages, signed by the Supplier and concurred by NPC. All shortages and damages noted shall be immediately replaced by the Supplier at his own cost and shall ensure the timely delivery of replacement without affecting the agreed overall contract implementation schedule.



Acceptance certificate shall be issued only upon completion of the following:

- a. The required equipment/component is satisfactorily inspected and delivered to the respective DPPs under Almagro Mini Grid. Inspection result is acceptable to NPC's authorized plant personnel;
- b. Submission of documents as specified hereto in Clause TS-10.0.

If the equipment delivered failed to pass inspection, NPC may at his own judgment, direct the Supplier to make necessary replacement.

TS-10.0**DRAWINGS AND DOCUMENTS TO BE SUBMITTED**

- a. To be submitted with the bid/proposal for evaluation:

- a.1 Completely filled-out Technical Data Sheets (TDS);
- a.2 Original Copy of Manufacturer/Distributor Authorization to Bid, directly addressed to the BAC-NPC, indicating therein the PR/Reference number.

In case of authorized Distributor issuing the authority to bid, it shall be accompanied by a Certificate of Authorized Distributorship from the Manufacturer.

Note: Authorization to bid and Certificate of Distributorship from the Manufacturer shall be current and valid on the date of bid opening as advertised.

- b. To be submitted during post qualification:

- b.1 Letter of Confirmation from the Manufacturer that a local agent or representative is available to provide "After Sales Service" to the supplied components/parts/accessories during and after the warranty period. Name, address and contact number shall be provided;
- b.2 Manufacturer's Brochures/Catalogues/Drawings which contain information/data to support the Supplier's submitted and filled-out Technical Data Sheet;

The drawings to be provided shall include the following;

- 1. Outline drawings of Automatic Circuit Recloser and accessories;
 - 2. Schematic and Wiring Diagram
- b.3 Certificate from their customer (End-user) duly addressed to the Bidder that the supplied equipment of the same brand to be offered has performed satisfactorily in service. The certification must indicate in the PR/Reference Number and date of issuance.



Note:

1. *Authorization to bid shall be current and valid for at least Six (6) months from the date of bid opening as advertised.*

c. To be submitted before or upon delivery:

- c.1 "Certificate of Origin" from the Manufacturer;
- c.2 "Warranty Certificate" for one (1) year against factory defects/workmanship;
- c.3 Outline drawings of Automatic Circuit Recloser and accessories including Schematic and Wiring Diagrams;
- c.4 User/Instruction and Installation Manual in Three (3) copies;

The instruction manual to be provided shall include the following:

- A schematic diagrams and component layout of all printed circuit boards
 - A detailed list of all component and parts including manufacturers part numbers
 - A detailed description of the circuit operation including block diagrams
 - A comprehensive trouble-shooting guide to assist in fault-finding
- c.5 Manufacturer's Brochures/Catalogues/Drawings which contain information/data to support the Supplier's submitted and filled-out Technical Data Sheet;
 - c.6 Calibration Certificate Traceable to National/International Standards;
 - c.7 Characterization Curve / Calibration Data;
 - c.8 Duly signed Routine Test Results; and
 - c.9 Field Test to be performed and Certified Test and Inspection Reports duly signed and witnessed by NPC representative.

Note: All documents in **Clause TS-10.0.c** shall be submitted to the **Division Manager – Eastern Visayas Operations Division** for evaluation and/or approval prior to issuance of acceptance certificate.

TS-11.0 GUARANTEE

The Supplier shall guarantee to complete the repair, and/or replacement within **Thirty (30) Calendar Days**, of the supplied instruments and accessories at his own expense against defect in design, workmanship and



materials for a period of **One (1) Year** after acceptance by NPC. The Supplier must guarantee that the unit will perform in the manner as set forth in the manual and the Contract.

The Supplier shall submit a Warranty Certificate (**At Least 1 Year**) effective from the date of acceptance by NPC.

After the lapse of the warranty period, provided that there are no defects found and/or pending repair works, NPC shall release the warranty security/certificate.

TS-12.0 MEASUREMENT OF PAYMENT

Payment will be made at the contract unit price for each corresponding item in the Schedule of Requirements. Payment thereof shall constitute the full compensation for the supply, delivery, installation, testing and commissioning of the equipment/ component including accessories.



SECTION VI - Technical Specifications**Part II – Technical Data Sheets****TABLE OF CONTENTS**

SECTION	DESCRIPTION	PAGE
1.0	15kV Automatic Circuit Recloser	VI-TDS-1
2.0	13.8kV Three Phase Kilowatt-hour Demand Meter	VI-TDS-5
3.0	Bus Conductor and Line Hardware	VI-TDS-5

SECTION VI - Technical Specifications**Part II – Technical Data Sheets****SUPPLY, DELIVERY, INSTALLATION, TESTING AND
COMMISSIONING OF 15kV AUTOMATIC CIRCUIT RECLOSERS AND
KILOWATT-HOUR DEMAND METERS FOR ALMAGRO MINI GRID
DIESEL POWER PLANTS**

- a. The Bidder shall complete this technical data sheet and submit the filled-up form with the technical proposal. The Bidder shall use continuation sheets as necessary for any other additional information keeping to the format shown herein or by reproducing the same.
- b. NPC reserves the right to reject Bids without proper and/or specific data and information as required herein.
- c. The data required are technical features and characteristics of the Equipment/component/material to be provided by the bidder. Bidder's proposal shall at least be equal or superior to the requirements specified by NPC.

1.0 15kV AUTOMATIC CIRCUIT RECLOSER

Item	Description	NPC 's Requirements	Supplier's Data
1.	Manufacturer	By Supplier	
2.	Place of Manufacture	By Supplier	
3.	No. of Units	4	
4.	Brand/Model	By Supplier	
5.	Type	Solid Dielectric Vacuum Interrupter	
6.	Phase	Three	
7.	Rated Frequency	60 Hz	
8.	Nominal Rated Voltage	13.8 kV	
9.	Maximum Rated Voltage	By Supplier	
10.	Rated Normal Current (Min.)	800 A	
11.	Rated Symmetrical Interrupting Current at rated Voltage	≥12 kA	
12.	Rated Short Time Current for 3 secs.	≥12 kA	
13.	Rated Making Current (RMS)	≥12 kA	
14.	Rated 1 min. power frequency withstand between phase and earth (min.)	50 kV	
15.	Interrupting Medium	Vacuum	
16.	Insulation Medium	Cycloaliphatic epoxy or equivalent	

Name of Bidder: _____

Signature of Bidder: _____

SECTION VI – TECHNICAL SPECIFICATIONS

PR NO. S2-MGA22-001

Item	Description	NPC 's Requirements	Supplier's Data
17.	Rated Operating Sequence (total number of trips/counts to lock out)	4	
18.	Current Sensing	By Supplier	
19.	Voltage Sensing	By Supplier	
20.	Mechanical Life – minimum number of close/open operations – without inspection	≥30000	
21.	HV Bushing Creepage Distance (min.)	≥465 mm	
22.	Min. length of umbilical (multi-core) cable to be provided	At least 20 m	
23.	AC Supply	230 Volts	
24.	DC Supply		
	a. Voltage	By Supplier	
	b. Make of Batteries	By Supplier	
	c. Type	Re-chargeable sealed lead-acid battery	
	d. Capacity	By Supplier	
	e. Battery Operating Time after Loss of AC supply	At least 48 hours	
	f. No. of reclose sequences possible within 48 hours after the loss of ac supply	By Supplier	
25.	Spare Battery	Re-chargeable sealed lead-acid battery	
	Capacity : 26Ah Voltage : 12Vdc Dimensions (LxWxH) : same as original	To be provided	
26.	Manual "Open-Close" Functionality with Operator Hook Stick	To be provided	
27.	Controller		
	a. Type	Electronic type equipped with advance protection, metering, control and communication in an individual module arranged within the compartment	
28.	Protection Features		
	a. Directional Overcurrent and Earth Fault Protection	Yes	
	b. Instantaneous/Time Overcurrent	Yes	
	c. Sensitive Earth Fault (Current Setting Range 1 – 80 Ampere)	Yes	
	d. Under and Over Voltage	Yes	
	e. Under and Over Frequency (pick-up setting range of 45 – 65 Hz)	Yes	
	f. Cold Load Pick-up Element	Yes	
	g. Inrush Restraint Element	Yes	

Name of Bidder: _____

Signature of Bidder: _____

SECTION VI – TECHNICAL SPECIFICATIONS

PR NO. S2-MGA22-001

Item	Description	NPC 's Requirements	Supplier's Data
	h. Auto Reclosing Element	Yes	
	i. Harmonics Protection Element (up to 15 th Harmonics)	Yes	
	j. Negative Phase Sequence Element	Yes	
	k. Auto Change Over Protection Scheme	Yes	
	l. Four (4) Independent Protection Groups - Each Group must contain independent protection settings for each direction	Yes	
29.	Remote control communication of existing Recloser Controller with integrated free software application and can be installed in a desktop, laptop and cellular phone devices. Effective WIFI signal range minimum of 100ft line of sight	Yes	
30.	Monitoring/Metering Functions	Yes	
31.	Data Records		
	a. Sequence of Event (Up to 5000 events can be stored)	Yes	
	b. Fault and Disturbance Records	Yes	
	c. Load Profile	Yes	
32.	Communication Interface	RS 232/RS 485	
33.	Rated Duty Cycle	0-0.1s CO-1s-CO-1s-CO	
34.	Controller Cubicle Degree of protection	At least IP 65	
35.	Fault Indicator Type FLA3.1 for overhead lines to be integrated with the control cubicle	To be provided	
36.	Buzzer Alarm Trip, Open/Close Alarm Indications	To be provided	
37.	Bird Guard for insulation protection between the load side and line side, Units	6	
38.	Total Weight, kg	By Supplier	
39.	Programming (Configuration) and Maintenance Human-Machine Interface equipped w/ Operating and Configuration Editor Software Program to be provided	Yes	
	a. Type	PC Compatible Notebook Computer	
	1. No. of Units to be supplied	1/plant	
	b. Hardware		
	1. Processor	Latest available model on the time of award	
	2. Clock Frequency, Hz	2.0 (min.)	
	3. RAM Capacity, GB	16	
	4. Hard Disk Capacity, TB	1	
	5. Video RAM	Dedicated 256 Mbytes	

Name of Bidder: _____

Signature of Bidder: _____

SECTION VI – TECHNICAL SPECIFICATIONS

PR NO. S2-MGA22-001

Item	Description	NPC 's Requirements	Supplier's Data
		min.	
	6. Optical Drive	DVD ± RW	
	7. Display	15" LCD Color Monitor	
	8. Audio System	Built-in Stereo Speakers	
	9. Data/Fax Modem	56 kbps (built-in)	
	c. Software		
	1. Operating System	Licensed Windows, pre-installed with back-up CDROM bundled with latest version of MS Office and reference manuals	
	2. Communication Stack	OSI-TCP / IP	
	3. Configuration Tools	Provided with back-up copy	
	4. Testing, Maintenance and Diagnostic Software	Provided with back-up copy	
	d. Peripheral Connectivity		
	1. Communication Interface (I/O)	1x9-pin RS232 & 1x25-pin ECP/EPP parallel ports, 1xUSB, keyboard & Mouse port, VGA port, phone line-in, microphone-in ports and DC jack for power adapter	
	e. Keyboard	84/85 key with embedded numeric key pad	
	f. Mouse	Built-in touch pad pointing device	
	g. Power Adaptor	100 - 240V full range 50 – 60Hz	
	h. Battery	Li-ion battery pack 4-5hrs rundown battery life with APM	
40.	Operating and Configuration Editor Software Program		
	a. All system software and configuration editor software program including licenses and instruction manuals	To be provided	
41.	Training		
	Manufacturer-supervised Hands-on Technical Training including configuration, setting and parameterization for minimum of three (3) Plant personnel	Yes	
42.	Test Requirement		
	1. Design and Routine Tests Reports required ¹	Yes	
43.	Equipment and Manufacturer's Experience		
	1. The Manufacturer should have been in the business of manufacturing the equipment for not less than: years ²	10	

Name of Bidder: _____

Signature of Bidder: _____

Item	Description	NPC 's Requirements	Supplier's Data
	2. The same type of equipment being offered should have been in the actual service for not less than: years ²	5	
44.	Warranty	One (1) year minimum	

Notes:

¹ The Supplier shall place in the filled-in data "submitted" or "will perform" or "had been performed" as appropriate

² Experience less than what is required will be ground for rejection of the equipment being offered.

2.0 13.8KV THREE PHASE KILOWATT-HOUR DEMAND METER

Item	Description	NPC 's Requirements	Supplier's Data
1.	Manufacturer	By Supplier	
2.	Accuracy Class	Class 0.2 or better	
3.	Number of Phase	3	
4.	Wire	4	
5.	Voltage, Vac	120 - 480	
6.	Current Range	Class 20	
7.	Frequency, Hz	60	
8.	Register Type	LCD	
9.	TOU (Time of Use)	Programmable Ready	
10.	Soft Switches	Available	
11.	LCD Display	Programmable	
12.	Power Consumption	Manufacturer's Data	
13.	The Kilowatt-hour meter to be provided is certified and approved by ERC	Yes	
14.	Metering Current Transformer, Dual Ratio	a. Biasong DPP, 20/10:5 b. Costa Rica DPP, 40/20:5 c. Lunang DPP, 20/10:5 d. Kirikite DPP, 20/10:5	
	a. Class (indoor, outdoor)	Outdoor	
	b. Insulation type	Full cast epoxy resin	
	c. Secondary rated current for all windings, A	5	
	d. CT ratio		
	e. Accuracy class	0.2	
	f. Burden	Manufacturer's Data	
	g. BIL, kV	110	
15.	Metering Voltage Transformer		
	a. Class (indoor, indoor)	Outdoor	
	b. Highest continuous operating voltage of VTs, kV	15	
	c. Nominal voltage of VT, kV	13.2	
	d. Rated secondary voltage, V	120	
	e. Insulation type	Full cast epoxy resin	

Name of Bidder: _____

Signature of Bidder: _____

Item	Description	NPC 's Requirements	Supplier's Data
	f. Accuracy class	0.2 or better	
	g. Burden	Manufacturer's Data	
	h. BIL, kV	110	

3.0 BUS CONDUCTOR AND LINE HARDWARE

Item	Description	NPC 's Requirements	Supplier's Data
Stranded Conductor Requirements			
1.	Manufacturer	By Supplier	
2.	Type designation	Aluminum Conductor Steel Reinforced (ACSR)	
3.	Code Name	By Supplier	
4.	Conductor size	2/0 AWG	
5.	Ampacity, A	270	
6.	Outer Layers		
	a. Material	Aluminum	
	b. Stranding No.	6	
	c. Calculated Cross-sectional Area, mm ²	Manufacturer's Data	
	d. Coefficient of Elongation (°C)	Manufacturer's Data	
7.	Core		
	a. Material	Galvanized Steel	
	b. Stranding No.	1	
	c. Calculated Cross-sectional Area, mm ²	Manufacturer's Data	
	d. Coefficient of Elongation (°C)	Manufacturer's Data	
8.	Conductor Coefficient of Linear Expansion (°C)	Manufacturer's Data	
Conductor Hardware			
9.	Connectors		
	a. Type	wedge pressure clamp for stranded conductor connection	
	b. Angle and T-connectors type	wedge pressure clamp for stranded conductor connection	

Name of Bidder: _____

Signature of Bidder: _____

SECTION VII

BID PRICE SCHEDULE

Section VII - Bid Price Schedule

SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF 15kV AUTOMATIC CIRCUIT RECLOSERS AND KILOWATT-HOUR DEMAND METERS FOR ALMAGRO MINI GRID DIESEL POWER PLANTS

ITEM NO.	DESCRIPTION	QTY.- UNIT	* C O D E	UNIT PRICE FOR GOODS AND RELATED SERVICES TO BE SUPPLIED AND DELIVERED					TOTAL PRICE Local Currency (Phil. Peso) ((E+F+G+H+I) x C)
				Unit Price of Goods Delivered up to Philippine Port (Phil. Peso)+	Import Duties & other Levies Imposed by Phil. Govt. (Phil. Peso)	Value Added Tax and other Taxes Imposed by Phil. Govt. (Phil. Peso)	Local Transport from Port to Delivery Site (Phil. Peso)	Labor (Installation, Testing and Commissioning) (Phil. Peso)>	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
1	Biasong DPP								
1.1	Supply, Delivery, and Test of 15kV, 800A, 3 Phase, 60Hz, Automatic Circuit Recloser including Accessories in accordance with the Technical Specifications, Technical Data Sheet, and as shown in the Bid Drawings	1 set							
1.2	Supply, Delivery, and Test of 13.8kV, 3 Phase, 60Hz, Kilowatt-hour Demand Meter including Instrument Transformers and other accessories in accordance with the Technical Specifications, Technical Data Sheet, and as shown in the Bid Drawings	1 set							
1.3	Supply, Installation and Test of Bus Conductor and Line Hardware as described in the Technical Specifications, Technical Data Sheets and as shown in the Bid Drawings	1 lot							
1.4	Dismantling of Existing Automatic Circuit Recloser including storing to the designated storage facility inside the plant	1 lot							
2	Costa Rica DPP								
2.1	Supply, Delivery, and Test of 15kV, 800A, 3 Phase, 60Hz, Automatic Circuit Recloser including Accessories in accordance with the Technical Specifications, Technical Data Sheet, and as shown in the Bid Drawings	1 set							
2.2	Supply, Delivery, and Test of 13.8kV, 3 Phase, 60Hz, Kilowatt-hour Demand Meter including Instrument Transformers and other accessories in accordance with the Technical Specifications, Technical Data Sheet, and as shown in the Bid Drawings	1 set							
2.3	Supply, Installation and Test of Bus Conductor and Line Hardware as described in the Technical Specifications, Technical Data Sheets and as shown in the Bid Drawings	1 lot							
2.4	Dismantling of Existing Automatic Circuit Recloser including storing to the designated storage facility inside the plant	1 lot							
2.5	Dismantling of Existing Kilowatt-hour Demand Meter including storing to the designated storage facility inside the plant	1 lot							
3	Lunang DPP								
3.1	Supply, Delivery, and Test of 15kV, 800A, 3 Phase, 60Hz, Automatic Circuit Recloser including Accessories in accordance with the Technical Specifications, Technical Data Sheet, and as shown in the Bid Drawings	1 set							

- * Bidders shall enter a code representing the Country of Origin of all imported equipment, materials and accessories
+ Cost of equipment, freight, insurance, etc. up to Phil. port of entry
< Unit Price for Local Transportation, Insurance and other local costs incidental to delivery of the goods from the Phil port of entry to final delivery site

Note: Final delivery site of the equipment: Refer to TS-2.0 of the Technical Specifications

Name of Bidder: _____

Signature of Bidder: _____

Country of Origin

Section VII - Bid Price Schedule

SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF 15KV AUTOMATIC CIRCUIT RECLOSERS AND KILOWATT-HOUR DEMAND METERS FOR ALMAGRO MINI GRID DIESEL POWER PLANTS

ITEM NO.	DESCRIPTION	QTY.- UNIT	* C O D E	UNIT PRICE FOR GOODS AND RELATED SERVICES TO BE SUPPLIED AND DELIVERED					TOTAL PRICE
				Unit Price of Goods Delivered up to Philippine Port (Phil. Peso)+	Import Duties & other Levies Imposed by Phil. Govt. (Phil. Peso)	Value Added Tax and other Taxes Imposed by Phil. Govt. (Phil. Peso)	Local Transport from Port to Delivery Site (Phil. Peso)	Labor (Installation, Testing and Commissioning) (Phil. Peso)>	Local Currency (Phil. Peso) ((E+F+G+H+I) x C)
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
3.2	Supply, Delivery, and Test of 13.8kV, 3 Phase, 60Hz, Kilowatt-hour Demand Meter including Instrument Transformers and other accessories in accordance with the Technical Specifications, Technical Data Sheet, and as shown in the Bid Drawings	1 set							
3.3	Supply, Installation and Test of Bus Conductor and Line Hardware as described in the Technical Specifications, Technical Data Sheets and as shown in the Bid Drawings	1 lot							
3.4	Dismantling of Existing Automatic Circuit Recloser including storing to the designated storage facility inside the plant	1 lot							
3.5	Dismantling of Existing Kilowatt-hour Demand Meter including storing to the designated storage facility inside the plant	1 lot							
4	Kirkite DPP								
4.1	Supply, Delivery, and Test of 15kV, 800A, 3 Phase, 60Hz, Automatic Circuit Recloser including Accessories in accordance with the Technical Specifications, Technical Data Sheet, and as shown in the Bid Drawings	1 set							
4.2	Supply, Delivery, and Test of 13.8kV, 3 Phase, 60Hz, Kilowatt-hour Demand Meter including Instrument Transformers and other accessories in accordance with the Technical Specifications, Technical Data Sheet, and as shown in the Bid Drawings	1 set							
4.3	Supply, Installation and Test of Bus Conductor and Line Hardware as described in the Technical Specifications, Technical Data Sheets and as shown in the Bid Drawings	1 lot							
4.4	Dismantling of Existing Automatic Circuit Recloser including storing to the designated storage facility inside the plant	1 lot							
4.5	Dismantling of Existing Kilowatt-hour Demand Meter including storing to the designated storage facility inside the plant	1 lot							

- * Bidders shall enter a code representing the Country of Origin of all imported equipment, materials and accessories
+ Cost of equipment, freight, insurance, etc. up to Phil. port of entry
< Unit Price for Local Transportation, insurance and other local costs incidental to delivery of the goods from the Phil port of entry to final delivery site

Note: Final delivery site of the equipment: Refer to TS-2.0 of the Technical Specifications



Name of Bidder: _____

Signature of Bidder: _____

Country of Origin

SECTION VIII

BIDDING FORMS

SECTION VIII – BIDDING FORMS

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SECTION VIII – BIDDING FORMS

Standard Form No: NPCSF-GOODS-01

Checklist of Technical & Financial Envelope Requirements for Bidders**A. THE 1ST ENVELOPE (TECHNICAL COMPONENT) SHALL CONTAIN THE FOLLOWING:****1. ELIGIBILITY DOCUMENTS****a. (CLASS A)****➤ Any of the following:**

- PhilGEPS Certificate of Registration and Membership under Platinum Category in accordance with Section 8.5.2 of the IRR;

OR:

- The following updated and valid Class "A" eligibility documents enumerated under "Annex A" of the Platinum Membership:

- Registration Certificate from the Securities and Exchange Commission (SEC) for corporations, Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives;
- Mayor's/Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas.

In cases of recently expired Mayor's/Business permits, it shall be accepted together with the official receipt as proof that the bidder has applied for renewal within the period prescribed by the concerned local government unit, provided that the renewed permit shall be submitted as a post qualification requirement in accordance with Section 34.2 of the Revised IRR of RA 9184.

- The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission.
- Tax clearance per Executive Order 398, Series of 2005, as finally reviewed and approved by the BIR or as stated under GPPB NPM-039-2014, for Non-Resident Foreign Corporation (NRFC) and Non-Resident Alien Not Engaged in Trade or Business (NRANETB), a Delinquency Verification Certificate may be submitted as a form of Tax Clearance;

OR:

- A combination thereof

➤ Statement of all its ongoing government and private contracts if any, whether similar or not similar in nature and complexity to the contract to be bid (NPCSF-GOODS-02)

➤ The Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, and whose value, adjusted to current prices using the Philippine Statistics Authority (PSA) consumer price index, must be at least 50% of the ABC (NPCSF-GOODS-03) complete with the following supporting documents:

1. Contract/Purchase Order
2. Certificate of Acceptance; or Certificate of Completion; or Official Receipt (O.R); or Sales Invoice

(The Single Largest Completed Contract (SLCC) as declared by the bidder shall be verified and validated to ascertain such completed contract. Hence, bidders must ensure access to sites of such projects/equipment to NPC representatives for verification and validation purposes during post-qualification process.

It shall be a ground for disqualification, if verification and validation cannot be conducted for reasons attributable to the Bidder.)

SECTION VIII – BIDDING FORMS

Standard Form No: NPCSF-GOODS-01

- Duly signed computation of its Net Financial Contracting Capacity (NFCC) at least equal to the ABC (NPCSF-GOODS-04) or a Committed Line of Credit (CLC) at least equal to ten percent (10%) of the ABC, issued by a Universal or Commercial Bank; If the Bidder opted to submit a Committed Line of Credit (CLC), the bidder must submit a granted credit line valid/effective at the date of bidding.
- b. (CLASS B)**
- For Joint Venture (if applicable), any of the following:
 - Valid Joint Venture Agreement (NPCSF-GOODS-05)
OR
 - Notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA, if awarded the contract
- Certification from the relevant government office of their country stating that Filipinos are allowed to participate in their government procurement activities for the same item/product (*For foreign bidders claiming eligibility by reason of their country's extension of reciprocal rights to Filipinos*)

2. Technical Documents

- Bid Security, any one of the following:
 - Bid Securing Declaration (NPCSF-GOODS-06c)
OR
 - Cash or Cashier's/Manager's check issued by a Universal or Commercial Bank – 2% of ABC;
OR
 - Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: (NPCSF-GOODS-06a) - 2% of ABC;
OR
 - Surety Bond callable upon demand issued by a reputable surety or insurance company (NPCSF-GOODS-06b) - 5% of ABC, with
 - Certification from the Insurance Commission as authorized company to issue surety
- Duly signed, completely filled-out and notarized Omnibus Sworn statement (Revised) (NPCSF-GOODS-07), complete with the following attachments:
 - For Sole Proprietorship:
 - Special Power of Attorney
 - For Partnership/Corporation/Cooperative/Joint Venture:
 - Document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)
- Data and Information to be submitted with the Proposal as specified in Clause TS-12.0(a) of Section VI - Technical Specifications
- Complete eligibility documents of the proposed subcontractor, if any

SECTION VIII – BIDDING FORMS

*Standard Form No: NPCSF-GOODS-01***B. THE 2ND ENVELOPE (FINANCIAL COMPONENT) SHALL CONTAIN THE FOLLOWING:**

- Duly signed Bid Letter indicating the total bid amount in accordance with the prescribed form (NPCSF-GOODS-08)
- Duly signed and completely filled-out Schedule of Requirement (Section VII) indicating the unit and total prices per item and the total amount in the prescribed Price Schedule form.
- For Domestic Bidder claiming for domestic preference:
 - Letter address to the BAC claiming for preference
 - Certification from DTI as Domestic Bidder in accordance with the prescribed forms provided

CONDITIONS:

1. Each Bidder shall submit one copy of the first and second components of its Bid. NPC may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.
2. In the case of foreign bidders, the eligibility requirements under Class "A" Documents (except for Tax Clearance) may be substituted by the appropriate equivalent documents, if any, issued by the country of the foreign bidder concerned. The eligibility requirements or statements, the bids, and all other documents to be submitted to the BAC must be in English. If the eligibility requirements or statements, the bids, and all other documents submitted to the BAC are in foreign language other than English, it must be accompanied by a translation of the documents in English. The documents shall be translated by the relevant foreign government agency, the foreign government agency authorized to translate documents, or a registered translator in the foreign bidder's country; and shall be authenticated by the appropriate Philippine foreign service establishment/post or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines.

These documents shall be accompanied by a Sworn Statement in a form prescribed by the GPPB stating that the documents submitted are complete and authentic copies of the original, and all statements and information provided therein are true and correct. Upon receipt of the said documents, the PhilGEPS shall process the same in accordance with the guidelines on the Government of the Philippines – Official Merchants Registry (GoP-OMR).
3. A Bidder not submitting bid for reason that his cost estimate is higher than the ABC, is required to submit his letter of non-participation/regret supported by corresponding detailed estimates. Failure to submit the two (2) documents shall be understood as acts that tend to defeat the purpose of public bidding without valid reason as stated under Section 69.1.(f) of the revised IRR of R.A. 9184.

SECTION VIII – BIDDING FORMS

Standard Form Number: NPCSF-GOODS-02

List of All Ongoing Government and Private Contracts Including Contract Awarded But Not Yet StartedBusiness Name : _____
Business Address : _____

Name of Contract/ Project Cost	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Bidder's Role		a. Date Awarded b. Date Started c. Date of Completion or Contract Duration/ Date of Delivery	Value of Outstanding Works / Undelivered Portion
			Description	%		
Government						
Private						
Total Cost						

The bidder shall declare in this form all his on-going government and private contracts including contracts where the bidder (either as individual or as a Joint Venture) is a partner in a Joint Venture agreement other than his current joint venture where he is a partner. Non declaration will be a ground for disqualification of bid.

Note : This statement shall be supported with the following documents for all the contract(s) stated above which shall be submitted during Post-qualification:

1. Contract/Purchase Order and/or Notice of Award
2. Certification coming from the project owner/client that the performance is satisfactory as of the bidding date.

Submitted by : _____
(Printed Name & Signature)Designation : _____
Date : _____

SECTION VIII – BIDDING FORMS

Standard Form Number: NPCSF-GOODS-03

The Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid

Business Name : _____
 Business Address : _____

Name of Contract	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Contractor's Role		a. Amount at Award b. Amount at Completion c. Duration	a. Date Awarded b. Contract Effectivity c. Date Completed
			Description	%		

- Notes: 1. The bidder must state only one (1) Single Largest Completed Contract (SLCC) similar to the contract to be bid.
 2. Supporting documents such as Contract/Purchase Order and any of the following: Certificate of Acceptance; or Certificate of Completion; or Official Receipt (O.R); or Sales Invoice for the contract stated above shall be submitted during Bid Opening.

Submitted by : _____
 (Printed Name & Signature)
 Designation : _____
 Date : _____

*Standard Form Number: NPCSF-GOODS-04***NET FINANCIAL CONTRACTING CAPACITY (NFCC)**

- A. Summary of the Supplier's/Distributor's/Manufacturer's assets and liabilities on the basis of the income tax return and audited financial statement for the immediately preceding calendar year are:

		Year 20__
1.	Total Assets	
2.	Current Assets	
3.	Total Liabilities	
4.	Current Liabilities	
5.	Net Worth (1-3)	
6.	Net Working Capital (2-4)	

- B. The Net Financial Contracting Capacity (NFCC) based on the above data is computed as follows:

NFCC = [(Current assets minus current liabilities) x 15] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started coinciding with the contract for this Project.

NFCC = P _____

Herewith attached is certified true copy of the audited financial statement, stamped "RECEIVED" by the BIR or BIR authorized collecting agent for the immediately preceding calendar year.

Submitted by:

Name of Supplier / Distributor / Manufacturer

Signature of Authorized Representative

Date : _____

Standard Form Number: NPCSF-GOODS-05

JOINT VENTURE AGREEMENT**KNOW ALL MEN BY THESE PRESENTS:**

That this JOINT VENTURE AGREEMENT is entered into by and between:
_____, of legal age, *(civil status)* _____, authorized representative of
_____ and a resident of _____.

- and -

_____, of legal age, *(civil status)* _____, authorized representative of
_____ a resident of _____.

That both parties agree to join together their capital, manpower, equipment, and other resources and efforts to enable the Joint Venture to participate in the Bidding and Undertaking of the hereunder stated Contract of the National Power Corporation.

NAME OF PROJECT**CONTRACT AMOUNT**

That the capital contribution of each member firm:

NAME OF FIRM	CAPITAL CONTRIBUTION
1. _____	P _____
2. _____	P _____

That both parties agree to be jointly and severally liable for their participation in the Bidding and Undertaking of the said contract.

That both parties agree that _____ and/or _____ shall be the Official Representative/s of the Joint Venture, and are granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the Joint Venture in the Bidding and Undertaking of the said contract, as fully and effectively and the Joint Venture may do and if personally present with full power of substitution and revocation.

That this Joint Venture Agreement shall remain in effect only for the above stated Contract until terminated by both parties.

Name & Signature of Authorized Representative

Official Designation

Name of Firm

Name & Signature of Authorized Representative

Official Designation

Name of Firm

Witnesses

1. _____

2. _____

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

Standard Form Number: NPCSF-GOODS-06a

FORM OF BID SECURITY (BANK GUARANTEE)

WHEREAS, (Name of Bidder) (hereinafter called "the Bidder") has submitted his bid dated (Date) for the [name of project] (hereinafter called "the Bid").

KNOW ALL MEN by these presents that We (Name of Bank) of (Name of Country) having our registered office at _____ (hereinafter called "the Bank" are bound unto National Power Corporation (hereinafter called "the Entity") in the sum of [amount in words & figures as prescribed in the bidding documents] for which payment well and truly to be made to the said Entity the Bank binds himself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this ____ day of _____ 20__.

THE CONDITIONS of this obligation are that:

- 1) if the Bidder withdraws his Bid during the period of bid validity specified in the Bidding Documents; or
- 2) if the Bidder does not accept the correction of arithmetical errors of his bid price in accordance with the Instructions to Bidder; or
- 3) if the Bidder, having determined as the LCB, fails or refuses to submit the required tax clearance, latest income and business tax returns and PhilGEPs registration certificate within the prescribed period; or
- 4) if the Bidder having been notified of the acceptance of his bid and award of contract to him by the Entity during the period of bid validity:
 - a) fails or refuses to execute the Contract; or
 - b) fails or refuses to submit the required valid JVA, if applicable; or
 - c) fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;

we undertake to pay to the Entity up to the above amount upon receipt of his first written demand, without the Entity having to substantiate its demand, provided that in his demand the Entity will note that the amount claimed by it is due to the occurrence of any one or combination of the four (4) conditions stated above.

The Guarantee will remain in force up to 120 days after the opening of bids or as it may be extended by the Entity, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE _____

SIGNATURE OF THE BANK _____

WITNESS _____

SEAL _____

(Signature, Name and Address)

SECTION VIII – BIDDING FORMS

Standard Form Number: NPCSF-GOODS-06b

FORM OF BID SECURITY (SURETY BOND)

BOND NO.: _____ DATE BOND EXECUTED: _____

By this bond, We (Name of Bidder) (hereinafter called "the Principal") and (Name of Surety) of (Name of Country of Surety), authorized to transact business in the Philippines (hereinafter called "the Surety") are held and firmly bound unto National Power Corporation (hereinafter called "the Employer") as Obligee, in the sum of (amount in words & figures as prescribed in the bidding documents), callable on demand, for the payment of which sum, well and truly to be made, we, the said Principal and Surety bind ourselves, our successors and assigns, jointly and severally, firmly by these presents.

SEALED with our seals and dated this _____ day of _____ 20 _____

WHEREAS, the Principal has submitted a written Bid to the Employer dated the _____ day of _____ 20 _____, for the _____ (hereinafter called "the Bid").

NOW, THEREFORE, the conditions of this obligation are:

- 1) if the Bidder withdraws his Bid during the period of bid validity specified in the Bidding Documents; or
- 2) if the Bidder does not accept the correction of arithmetical errors of his bid price in accordance with the Instructions to Bidder; or
- 3) if the Bidder, having determined as the LCB, fails or refuses to submit the required tax clearance, latest income and business tax returns and PhilGEPs registration certificate within the prescribed period; or
- 4) if the Bidder having been notified of the acceptance of his bid and award of contract to him by the Entity during the period of bid validity:
 - d) fails or refuses to execute the Contract; or
 - e) fails or refuses to submit the required valid JVA, if applicable; or
 - f) fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;

then this obligation shall remain in full force and effect, otherwise it shall be null and void.

PROVIDED HOWEVER, that the Surety shall not be:

- a) liable for a greater sum than the specified penalty of this bond, nor
- b) liable for a greater sum than the difference between the amount of the said Principal's Bid and the amount of the Bid that is accepted by the Employer.

Standard Form Number: NPCSF-GOODS-06b
Page 2 of 2

This Surety executing this instrument hereby agrees that its obligation shall be valid for 120 calendar days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Surety is hereby waived.

PRINCIPAL _____ SURETY _____

SIGNATURE(S) _____ SIGNATURES(S) _____

NAME(S) AND TITLE(S) _____ NAME(S) _____

SEAL _____ SEAL _____

SECTION VIII – BIDDING FORMS

Standard Form No: NPCSF-GOODS-06c

REPUBLIC OF THE PHILIPPINES)
CITY OF _____) S.S.**BID-SECURING DECLARATION**
SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF 15kV
AUTOMATIC CIRCUIT RECLOSERS AND KILOWATT-HOUR DEMAND METERS FOR
ALMAGRO MINI GRID POWER PLANTS (PR NO. S2-MGA22-001)To: **National Power Corporation**
BIR Road cor. Quezon Ave.
Diliman, Quezon CityI/We¹, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid-Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the Procuring Entity for the commission of acts resulting to the enforcement of the Bid Securing Declaration under Sections 23.1 (b), 34.2, 40.1 and 69.1, except 69.1 (f) of the IRR of R.A. 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid-Securing Declaration shall cease to be valid on the following circumstances:
 - (a) Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - (b) I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right;
 - (c) I am/we are declared as the bidder with the Lowest Calculated and Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/we have hereunto set my hand this ____ day of ____
20____ at _____, Philippines._____
[Name and Signature of Bidder's Representative/
Authorized Signatory]
[Signatory's legal capacity]
Affiant**[Jurat]**
[Format shall be based on the latest Rules on Notarial Practice]¹ Select one and delete the other. Adopt same instruction for similar terms throughout the document.

Standard Form No: NPCSF-GOODS-07

Omnibus Sworn Statement (Revised)

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. [Select one, delete the other:]

[If a sole proprietorship:] I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

[If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. [Select one, delete the other:]

[If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable:)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. [Select one, delete the rest:]

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

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[If a partnership or cooperative:] None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a corporation or joint venture:] None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and
8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a. Carefully examining all of the Bidding Documents;
 - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.
9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

IN WITNESS WHEREOF, I have hereunto set my hand this ___ day of ___, 20__ at _____, Philippines.

*[Insert NAME OF BIDDER OR ITS AUTHORIZED
REPRESENTATIVE]*

[Insert signatory's legal capacity]
Affiant

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

SECTION VIII – BIDDING FORMS

Standard Form No: NPCSF-GOODS-08

BID LETTER

Date: _____

To: **THE PRESIDENT**
National Power Corporation
BIR Road cor. Quezon Ave.
Diliman, Quezon City

Gentlemen:

Having examined the Bidding Documents including Bid Bulletin Numbers *[insert numbers]*_____, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to perform **SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF 15kV AUTOMATIC CIRCUIT RECLOSERS AND KILOWATT-HOUR DEMAND METERS FOR ALMAGRO MINI GRID POWER PLANTS (PR NO. S2-MGA22-001)** in conformity with the said Bidding Documents for the sum of *[total Bid amount in words and figures]*_____ or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, to supply and deliver the goods and perform other services, if required within the contract duration and in accordance with the scope of the contract specified in the Schedule of Requirements and Technical Specifications.

If our Bid is accepted, we undertake to provide a performance security in the form, amounts, and within the times specified in the Bidding Documents.

We agree to abide by this Bid for the Bid Validity Period specified in Bid Documents and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

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

We certify/confirm that we comply with the eligibility requirements pursuant to the Bidding Documents.

We likewise certify/confirm that the undersigned, *[for sole proprietorships, insert: as the owner and sole proprietor or authorized representative of [Name of Bidder]*_____ has the full power and authority to participate, submit the bid, and to sign and execute the ensuing contract, on the latter's behalf for the *[Name of Project]*_____ of the National Power Corporation *[for partnerships, corporations, cooperatives, or joint ventures, insert: is granted full power and authority by the [Name of Bidder]*_____ to participate, submit the bid, and to sign and execute the ensuing contract on the latter's behalf for *[Name of Project]*_____ of the National Power Corporation.

We acknowledge that failure to sign each and every page of this Bid Letter, including the attached Schedule of Requirements (Bid Price Schedule), shall be a ground for the rejection of our bid.

*[name and signature of authorized signatory]*_____
[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____
[name of bidder]

Bank Guarantee Form for Advance Payment

To: **THE PRESIDENT**
National Power Corporation
BIR Road cor. Quezon Ave.
Diliman, Quezon City

[name of Contract]

Gentlemen and/or Ladies:

In accordance with the Advance Payment Provision, of the General Conditions of Contract, [name and address of Supplier] (hereinafter called the "Supplier") shall deposit with the PROCURING ENTITY a bank guarantee to guarantee its proper and faithful performance under the said Clause of the Contract in an amount of [amount of guarantee in figures and words].

We, the [name of the universal/commercial bank], as instructed by the Supplier, agree unconditionally and irrevocably to guarantee as primary obligator and not as surety merely, the payment to the PROCURING ENTITY on its first demand without whatsoever right of objection on our part and without its first claim to the Supplier, in the amount not exceeding [amount of guarantee in figures and words].

We further agree that no change or addition to or other modification of the terms of the Contract to be performed thereunder or of any of the Contract documents which may be made between the PROCURING ENTITY and the Supplier, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition, or modification.

This guarantee shall remain valid and in full effect from the date the advance payment is received by the Supplier under the Contract and until the Goods are accepted by the PROCURING ENTITY.

Yours truly,

Signature and seal of the Guarantors

[name of bank or financial institution]

[address]

[date]

CERTIFICATION AS A DOMESTIC BIDDER

This is to certify that based on the records of this office, (Name of Bidder) is
duly registered with the DTI on _____.

This further certifies that the articles forming part of the product of (Name of Bidder),
which are/is (Specify) _____, are substantially composed of
articles, materials, or supplies grown, produced or manufactured in the Philippines. (Please
encircle the applicable description/s).

This certification is Issued upon the request of (Name of Person/Entity) in
connection with his intention to participate in the bidding for the (Name of Project)
of the National Power Corporation (NPC).

Given this ___ day of _____ 20__ at _____, Philippines

Name

Position

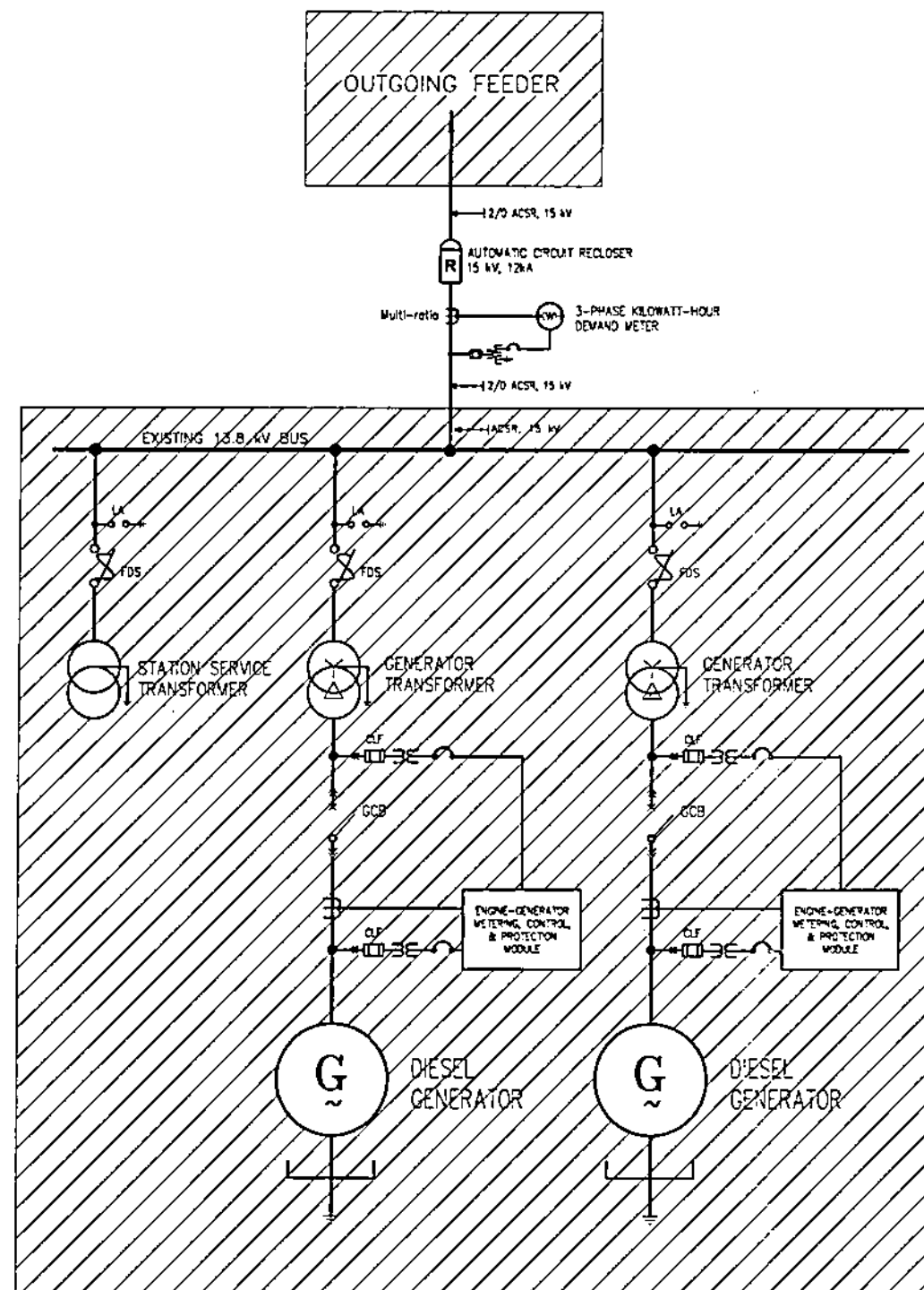
Department of Trade & Industry

SECTION IX

BID DRAWINGS

SECTION IX - BID DRAWINGS**EW - ELECTRICAL DRAWINGS**

DRAWING NO.	TITLE
KirDPP-BDE-17.001	Single Line Diagram (Kirikite DPP)
KirDPP-BDE-17.002	Details of Take-off Structure (Kirikite DPP)
CsrDPP-BDE-17.001	Single Line Diagram (Costa Rica DPP)
CsrDPP-BDE-17.002	Details of Take-off Structure (Costa RicaDPP)
LunDPP-BDE-17.001	Single Line Diagram (Lunang DPP)
LunDPP-BDE-17.002	Details of Take-off Structure (1/2) (Lunang DPP)
LunDPP-BDE-17.003	Details of Take-off Structure (2/2) (Lunang DPP)
BiaDPP-BDE-17.001	Single Line Diagram (Biasong DPP)
BiaDPP-BDE-17.002	Details of Take-off Structure (Biasong DPP)



NOTES:

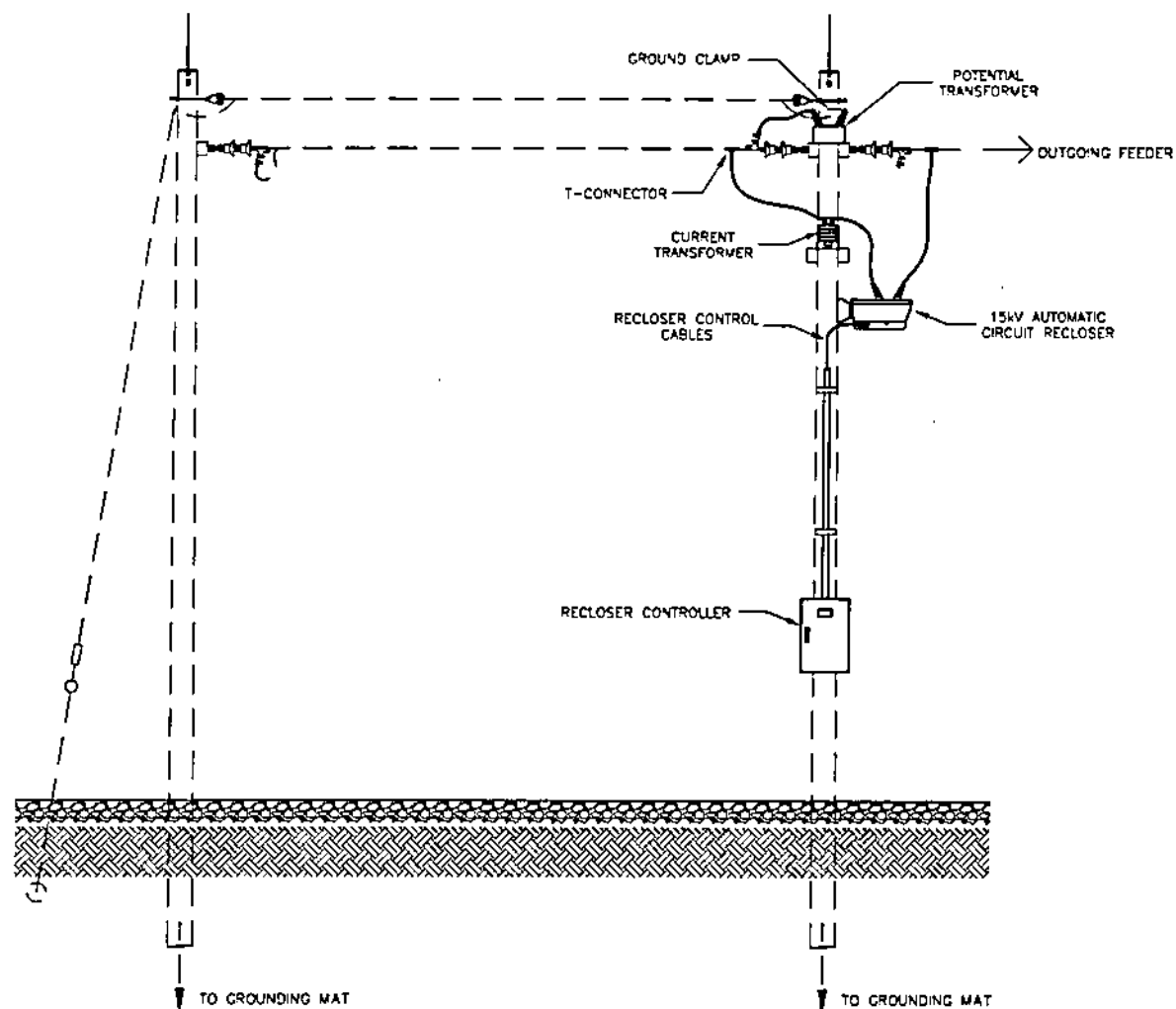
1. ALL EQUIPMENT TO BE SUPPLIED SHALL BE TESTED AND PROVEN PASSED IN ACCORDANCE TO THE REQUIREMENTS OF SECTION VI. - TECHNICAL SPECIFICATIONS.
2. ALL EQUIPMENT IN THE SHADED AREA ARE EXISTING.
3. ALL EQUIPMENT DRAWN IN HIDDEN LINES ARE FOR FUTURE INSTALLATION. ALL OTHERS ARE INCLUDED IN THE CONTRACT.

LEGEND:

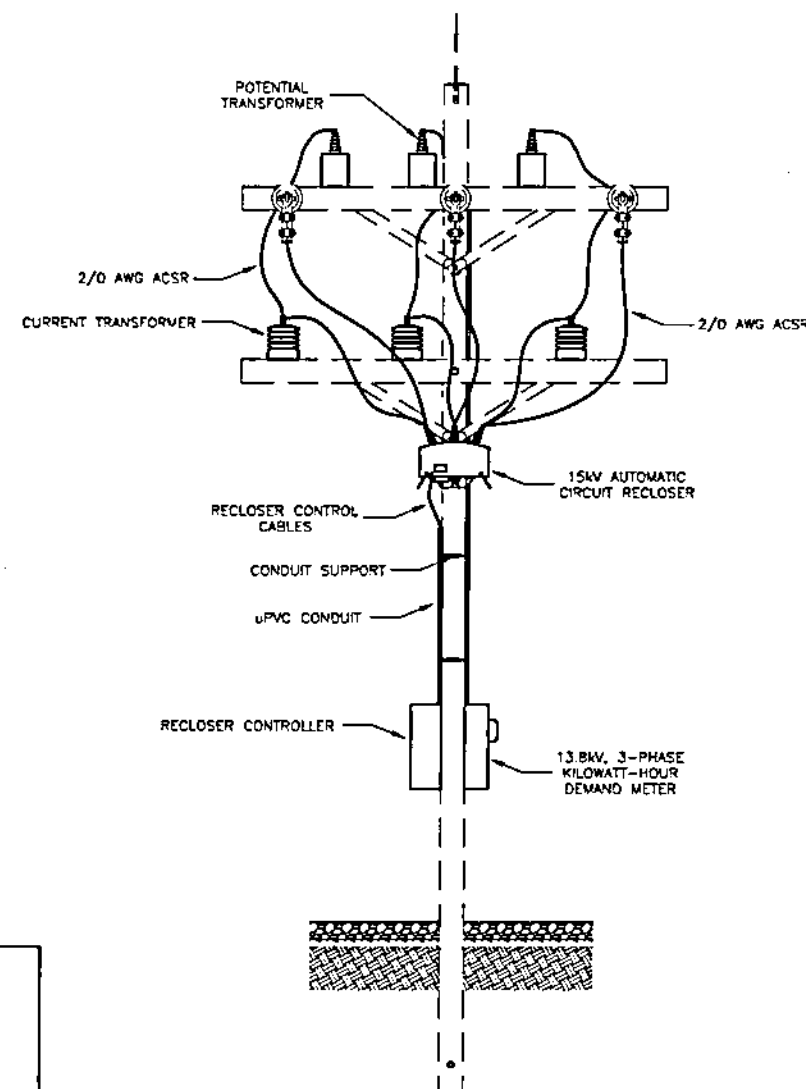
- VOLTAGE TRANSFORMER
 CURRENT TRANSFORMER
 KILOWATT-HOUR METER
 15kV AUTOMATIC CIRCUIT RECLOSER

OWNER:		NATIONAL POWER CORPORATION AGHAM ROAD, DILIMAN, QUEZON CITY	
PROJECT: SUPPLY, DELIVERY, INSTALLATION, TEST AND COMMISSIONING OF 15KV AUTOMATIC CIRCUIT RECLOSERS AND KILOWATT-HOUR DEMAND METERS FOR ALMAGRO MINI GRID DIESEL POWER PLANTS LOCATION: Brgy. Kirikite, Almagro, Western Samar			
TITLE: SINGLE LINE DIAGRAM (KIRIKITE DPP)			
DESIGNED	BY	CHKD	DATE
DRAWN	NIC		
REVIEWED	PRINCIPAL ENGR. / ARCHT.		
CIVIL/ARCHT			
ELEC.			
MECH.			
SUBMITTED:		 B. M. AGUILA Principal Engineer	
RECOMMENDED:		 G. Z. C. LUGOD JR. Manager, EECDD	
APPROVED:		 N. G. DOMESTERRA Manager, DDD	
DWG. NO. KIRDPP-BDE-17.001		P.R. NO. S2-MGA22-001	
SCALE: N.T.S.		BID DRAWING REV. 0	

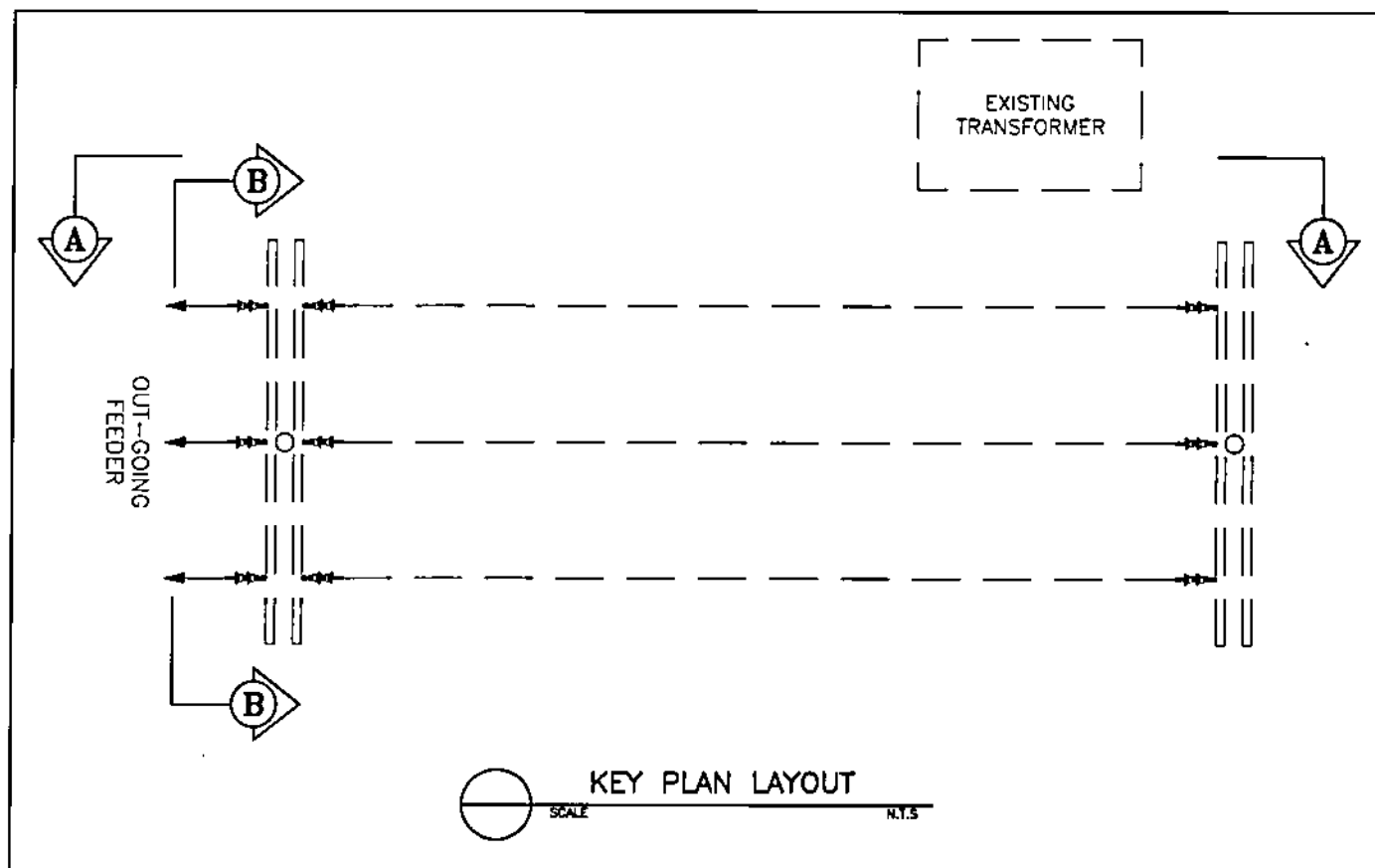
REV.	DATE	NATURE OF REVISION	BY	CHKD.	RECD.	APPD.



SECTION A-A



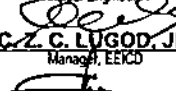



SECTION B-B

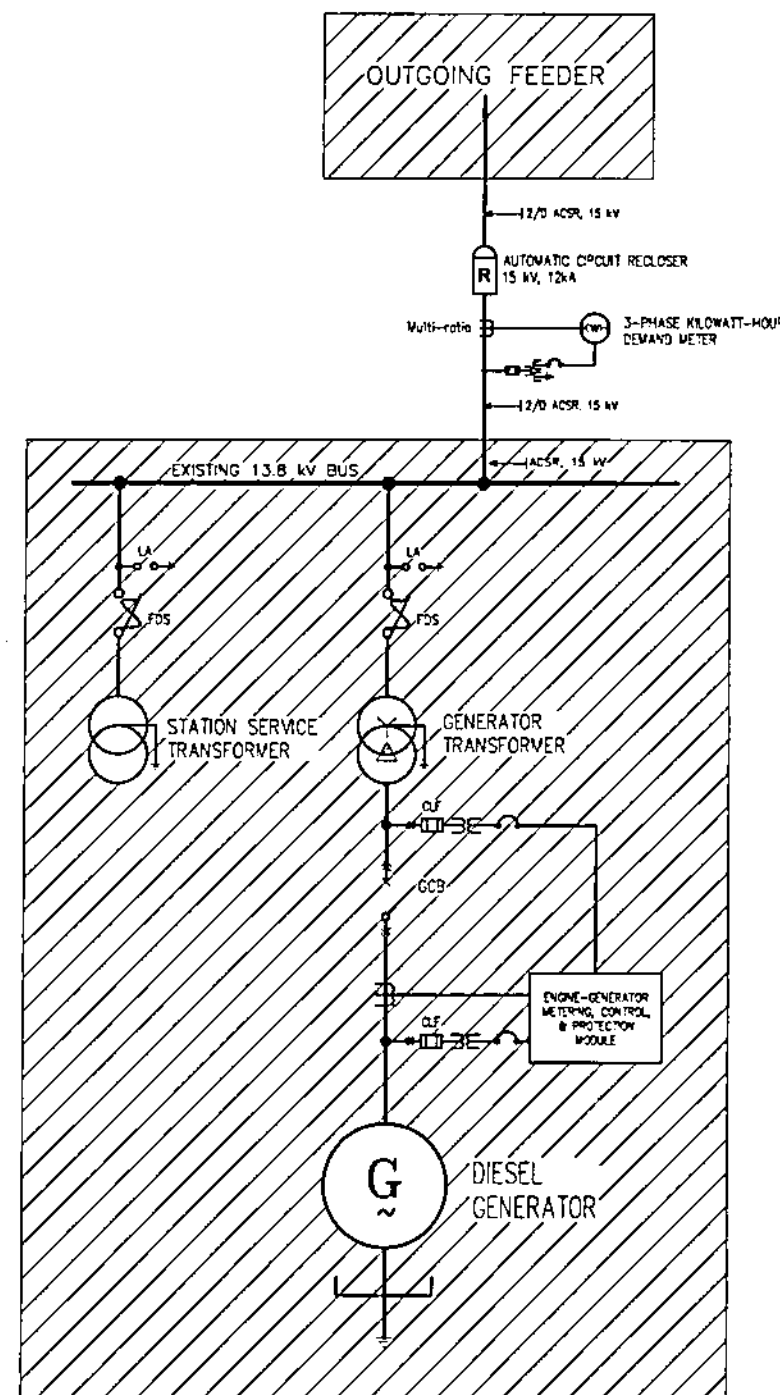


NOTES:

1. ALL EQUIPMENT/STRUCTURES DRAWN IN HIDDEN LINES ARE EXISTING. ALL OTHERS ARE INCLUDED IN THE CONTRACT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE WITH ALL DAMAGES OCCURRED DURING THE DISMANTLING AND INSTALLATION WORKS. ALL DAMAGED EQUIPMENT SHALL BE REPLACED BY THE SUPPLIER AT NO ADDITIONAL COST TO NPC.

OWNER:		 NATIONAL POWER CORPORATION AGHAM ROAD, DILIMAN, QUEZON CITY	
PROJECT: SUPPLY, DELIVERY, INSTALLATION, TEST AND COMMISSIONING OF 15KV AUTOMATIC CIRCUIT RECLOSERS AND KILOWATT-HOUR DEMAND METERS FOR ALMAGRO MINI GRID DIESEL POWER PLANTS LOCATION: Brgy. Kiri kite, Almagro, Western Samar			
TITLE: DETAILS OF TAKE-OFF STRUCTURE (KIRIKITE DPP)			
DESIGNED	BY	CHKD	DATE
DRAWN	NIC		
REVIEWED	PRINCIPAL ENGR. / ARCHT.		
CIVIL/ARCHT			
ELEC.			
MECH.			
SUBMITTED:		 B. M. AGUILA Principal Engineer	
RECOMMENDED:		 C. Z. C. LUGOD, JR. Manager, EECOD	
APPROVED:		 N. S. SOMOLIBERA Manager, DDD	
DWG. NO. KirDPP-BDE-17.002		P.R. NO. S2-MGA22-001	
SCALE: N.T.S.		BID DRAWING REV. 0	

REV.	DATE	NATURE OF REVISION	BY	CHKD.	RECD.	APPD.



NOTES:

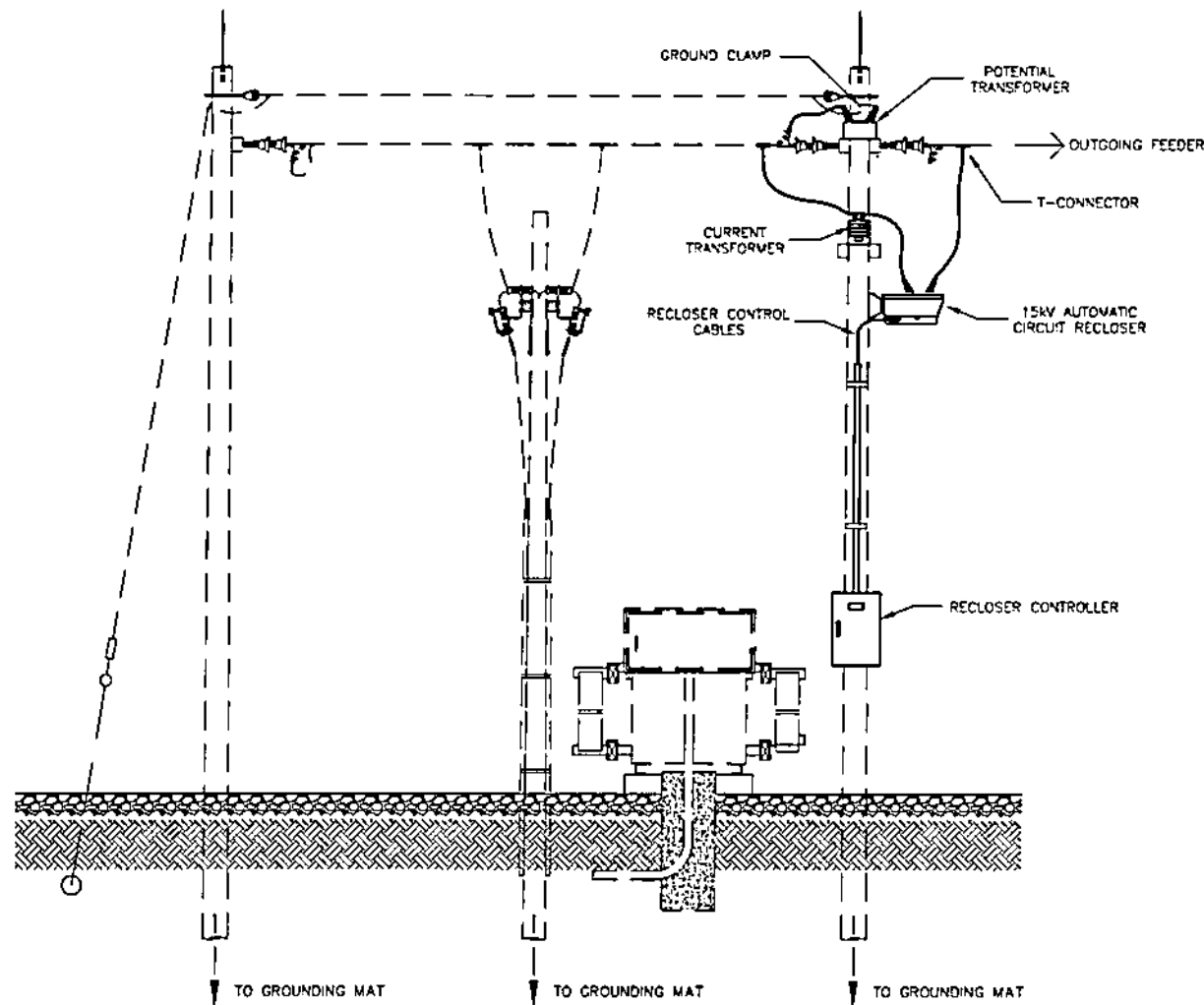
1. ALL EQUIPMENT TO BE SUPPLIED SHALL BE TESTED AND PROVEN PASSED IN ACCORDANCE TO THE REQUIREMENTS OF SECTION VI. - TECHNICAL SPECIFICATIONS.
2. ALL EQUIPMENT IN THE SHADED AREA ARE EXISTING.
3. ALL EQUIPMENT DRAWN IN HIDDEN LINES ARE FOR FUTURE INSTALLATION. ALL OTHERS ARE INCLUDED IN THE CONTRACT.

LEGEND:

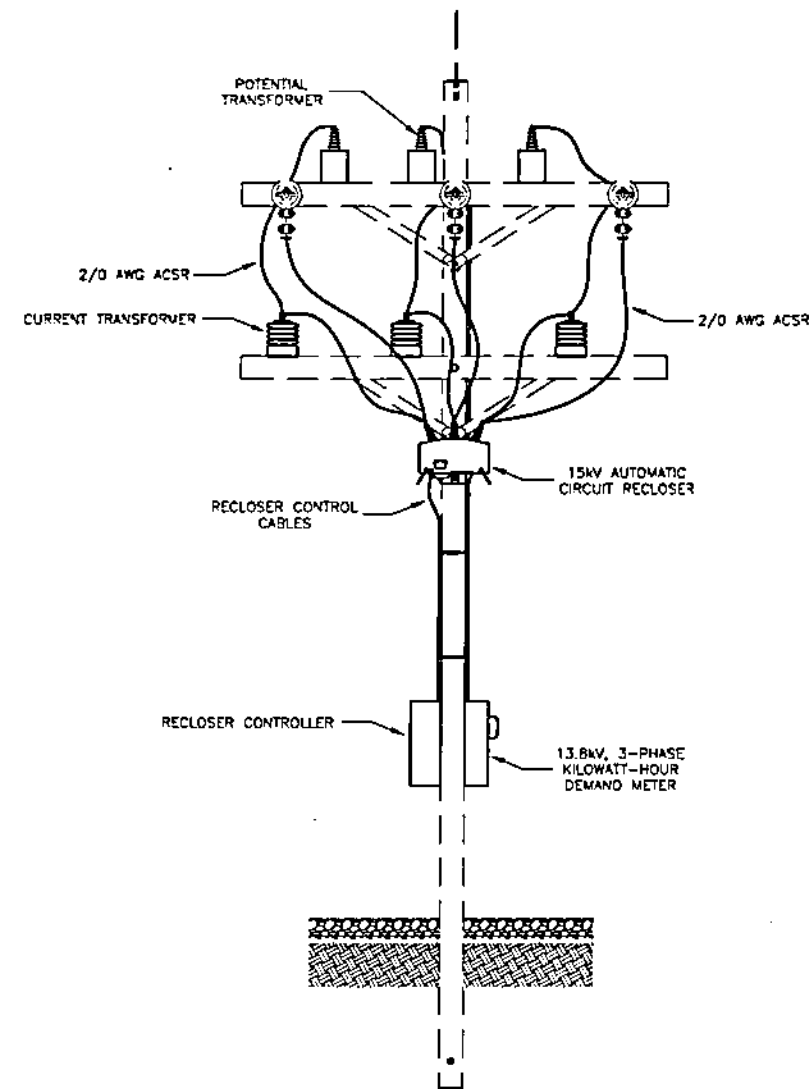
- ⊗ VOLTAGE TRANSFORMER
- ⊕ CURRENT TRANSFORMER
- ⊗ KILOWATT-HOUR METER
- R 15kV AUTOMATIC CIRCUIT RECLOSER

OWNER:		NATIONAL POWER CORPORATION AGHAM ROAD, DILIMAN, QUEZON CITY	
PROJECT: SUPPLY, DELIVERY, INSTALLATION, TEST AND COMMISSIONING OF 15kV AUTOMATIC CIRCUIT RECLOSERS AND KILOWATT-HOUR DEMAND METERS FOR ALMAGRO MINI GRID DIESEL POWER PLANTS LOCATION: Brgy. Costa Rica II, Almagro, Western Samar			
TITLE:		SINGLE LINE DIAGRAM (COSTA RICA DPP)	
DESIGNED	BY	CHKD	DATE
DRAWN	NIC		
REVIEWED	PRINCIPAL ENGR. / ARCHT.		
CIVIL/ARCHT			
ELEC.			
MECH.			
SUBMITTED:		 B. M. AGUILA Principal Engineer	
RECOMMENDED:		 C. Z. C. LUGO, JR. Manager/EECD	
APPROVED:		 N. G. SOMOLERA Manager/EECD	
DWG. NO. CsrDPP-BDE-17.001		P.R. NO. S2-MGA22-001	
SCALE: N.T.S.		BID DRAWING REV. 0	

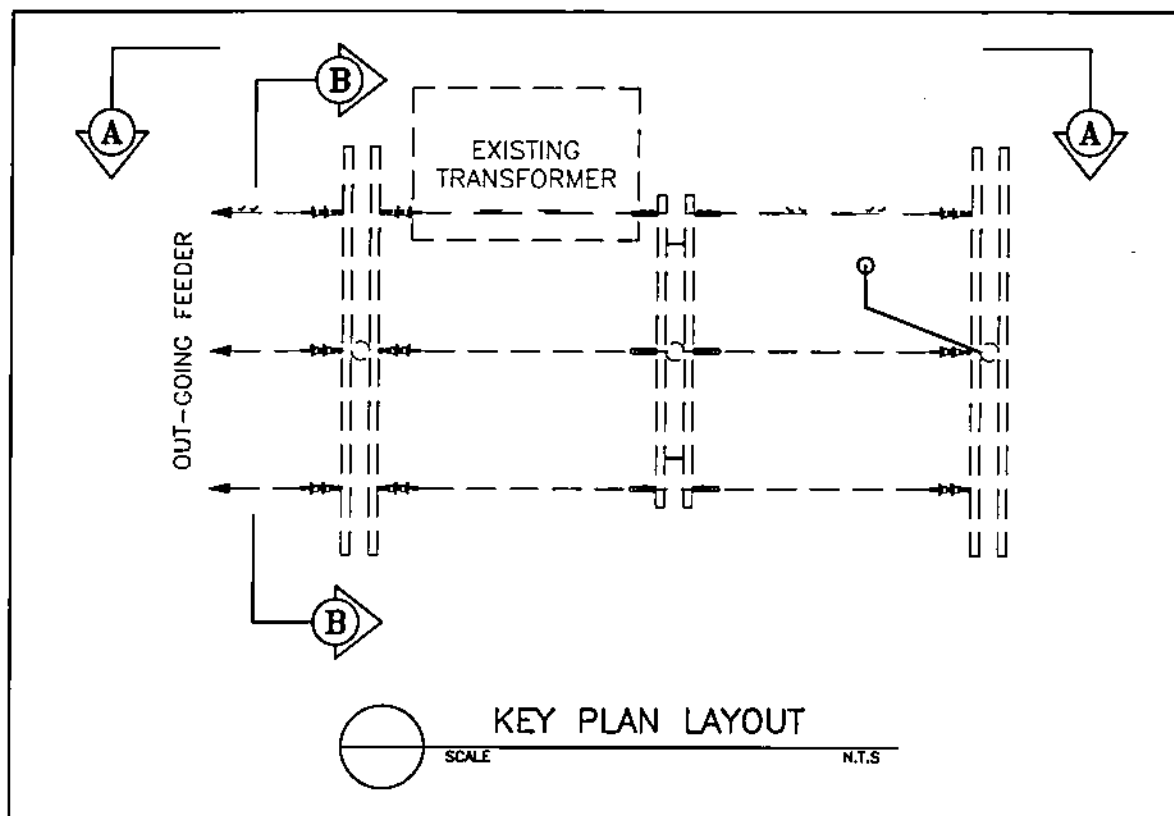
REV.	DATE	NATURE OF REVISION	BY	CHKD.	RECD.	APPD.



SECTION A-A



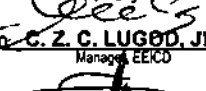



SECTION B-B

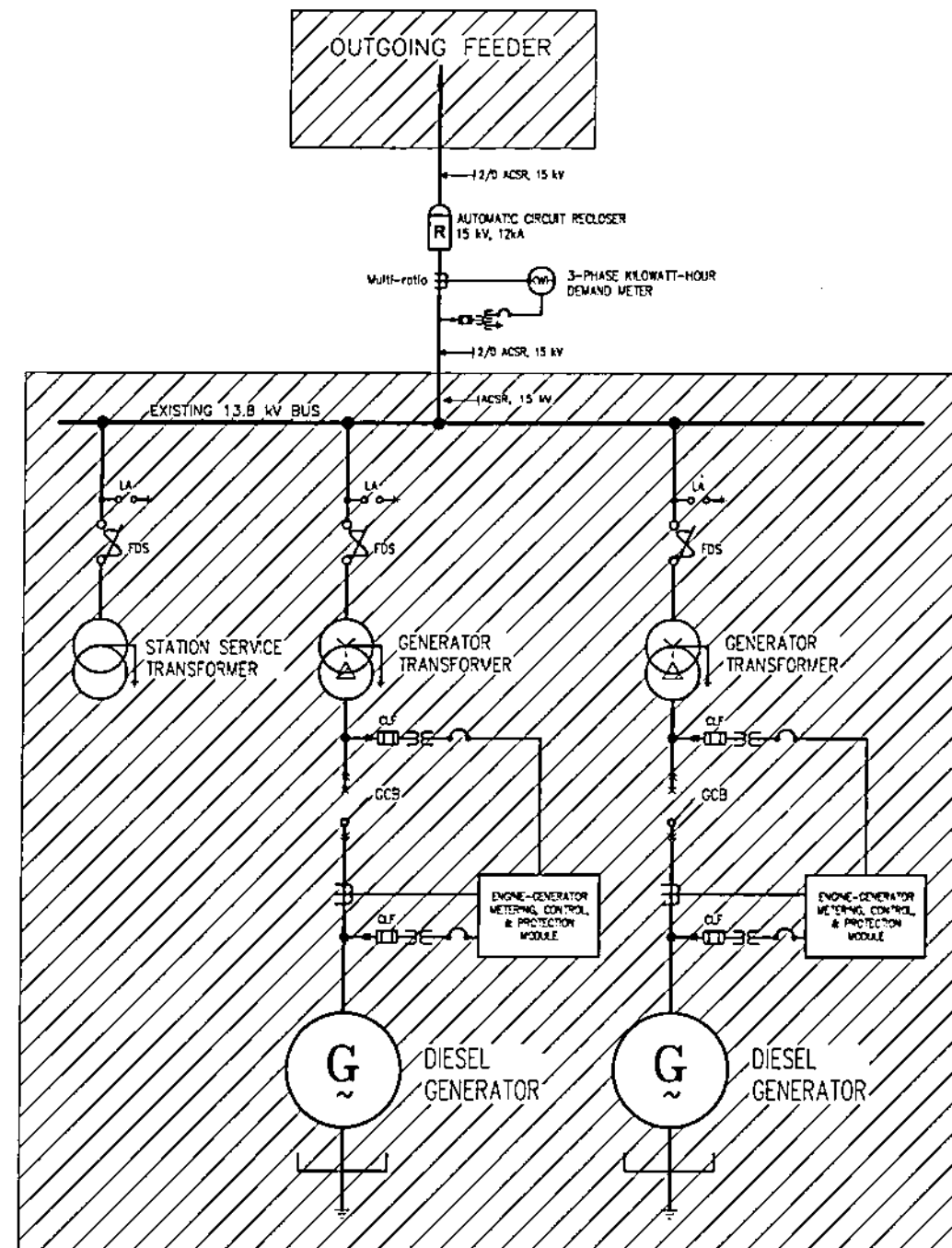


NOTES:

1. ALL EQUIPMENT/STRUCTURES DRAWN IN HIDDEN LINES ARE EXISTING. ALL OTHERS ARE INCLUDED IN THE CONTRACT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE WITH ALL DAMAGES OCCURRED DURING THE DISMANTLING AND INSTALLATION WORKS. ALL DAMAGED EQUIPMENT SHALL BE REPLACED BY THE SUPPLIER AT NO ADDITIONAL COST TO NPC.

OWNER:		 NATIONAL POWER CORPORATION AGHAM ROAD, DILIMAN, QUEZON CITY	
PROJECT: SUPPLY, DELIVERY, INSTALLATION, TEST AND COMMISSIONING OF 15KV AUTOMATIC CIRCUIT RECLOSERS AND KILOWATT-HOUR DEMAND METERS FOR ALMAGRO MINI GRID DIESEL POWER PLANTS LOCATION: Brgy. Costa Rica II, Almagro, Western Samar			
TITLE: DETAILS OF TAKE-OFF STRUCTURE (COSTA RICA DPP)			
DESIGNED	BY	CHKD	DATE
DRAWN	NTC		
REVIEWED	PRINCIPAL ENGR./ARCHT.		
CIVIL/ARCHT			
ELEC.			
MECH.			
SUBMITTED:		 B. M. AGUILA Principal Engineer	
RECOMMENDED:		 C. Z. C. LUGOD, JR. Manager, EE/CO	
APPROVED:		 W. G. S. S. S. S. Manager, ODD	
DWG. NO. CsrDPP-BDE-17.002		P.R. NO. S2-MGA22-001	
SCALE: N.T.S.		BID DRAWING REV. 0	

REV.	DATE	NATURE OF REVISION	BY	CHKD.	RECD.	APPD.



NOTES:

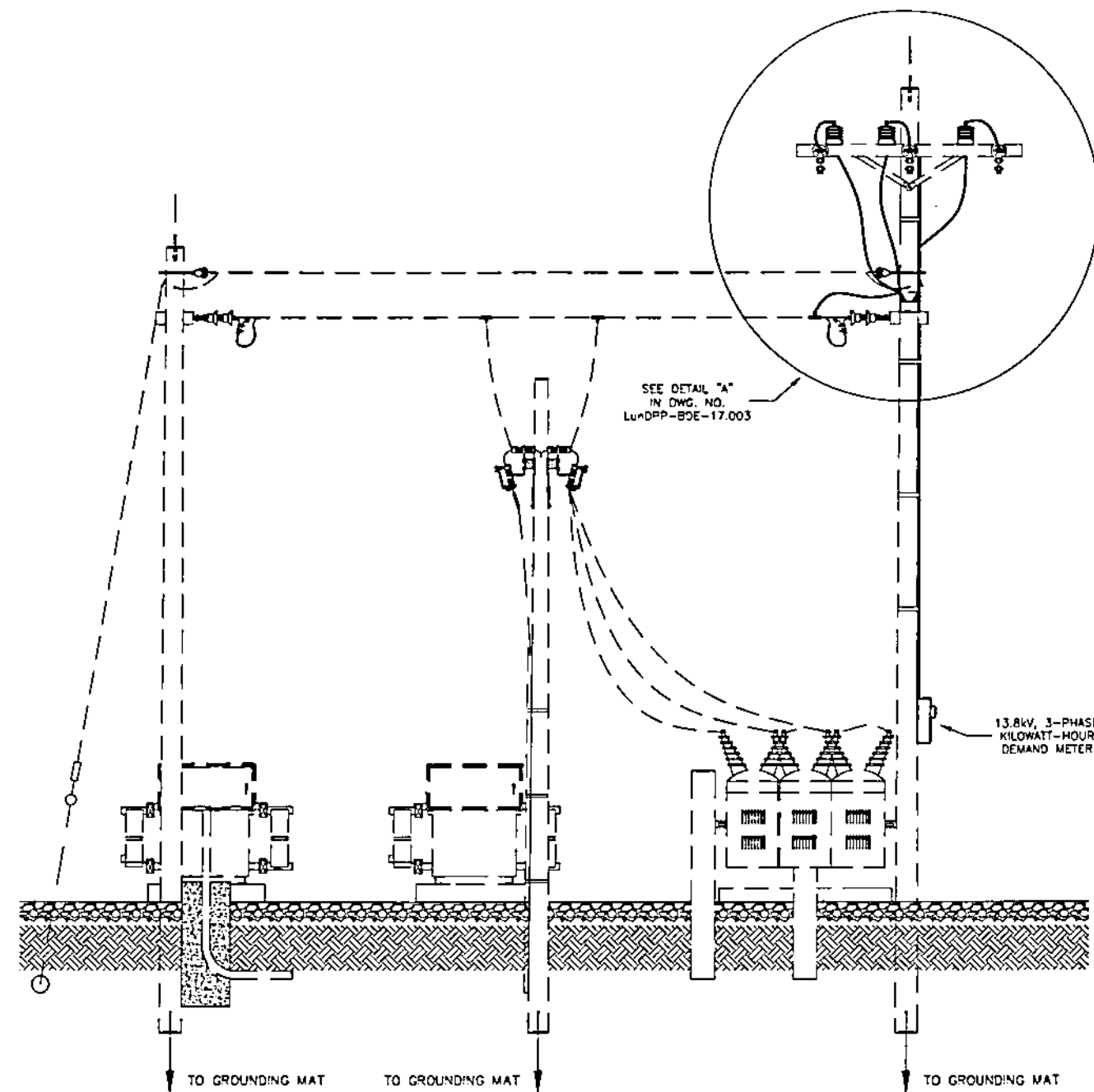
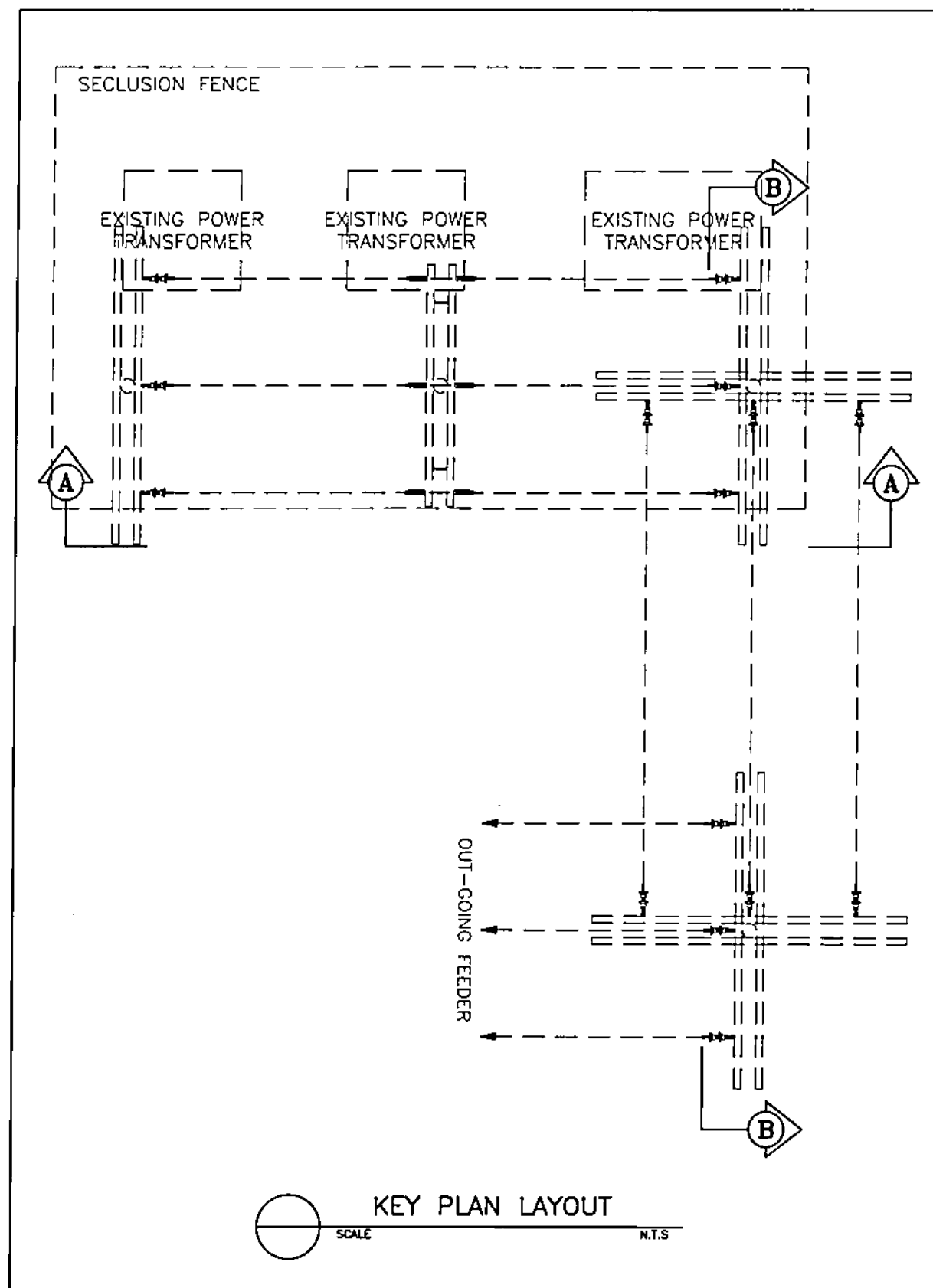
1. ALL EQUIPMENT TO BE SUPPLIED SHALL BE TESTED AND PROVEN PASSED IN ACCORDANCE TO THE REQUIREMENTS OF SECTION VI. - TECHNICAL SPECIFICATIONS.
2. ALL EQUIPMENT IN THE SHADED AREA ARE EXISTING.
3. ALL EQUIPMENT DRAWN IN HIDDEN LINES ARE FOR FUTURE INSTALLATION. ALL OTHERS ARE INCLUDED IN THE CONTRACT.

LEGEND:

- 3E** VOLTAGE TRANSFORMER
CT CURRENT TRANSFORMER
KWH KILOWATT-HOUR METER
R 15KV AUTOMATIC CIRCUIT RECLOSER

OWNER:		NATIONAL POWER CORPORATION AGHAM ROAD, DILIMAN, QUEZON CITY	
PROJECT: SUPPLY, DELIVERY, INSTALLATION, TEST AND COMMISSIONING OF 15KV AUTOMATIC CIRCUIT RECLOSERS AND KILOWATT-HOUR DEMAND METERS FOR ALMAGRO MINI GRID DIESEL POWER PLANTS LOCATION: Brgy. Lunang I, Almagro, Western Samar			
TITLE: SINGLE LINE DIAGRAM (LUNANG DPP)			
DESIGNED	BY	CHKD	DATE
DRAWN	HIC		
REVIEWED	PRINCIPAL ENGR./ARCHT.		
CIVIL/ARCHT			
ELEC.			
MECH.			
SUBMITTED:		 B. M. AGUILA Principal Engineer	
RECOMMENDED:		 E. Z. C. LUGO, JR. Manager/BECD	
APPROVED:		 N. G. SISON Manager, DDU	
DWS NO. LunDPP-BDE-17.001		P.R. NO. S2-MGA22-001	
SCALE: N.T.S.		BID DRAWING REV. 0	





REV.	DATE	NATURE OF REVISION	BY	CHKD.	RECD.	APPO.



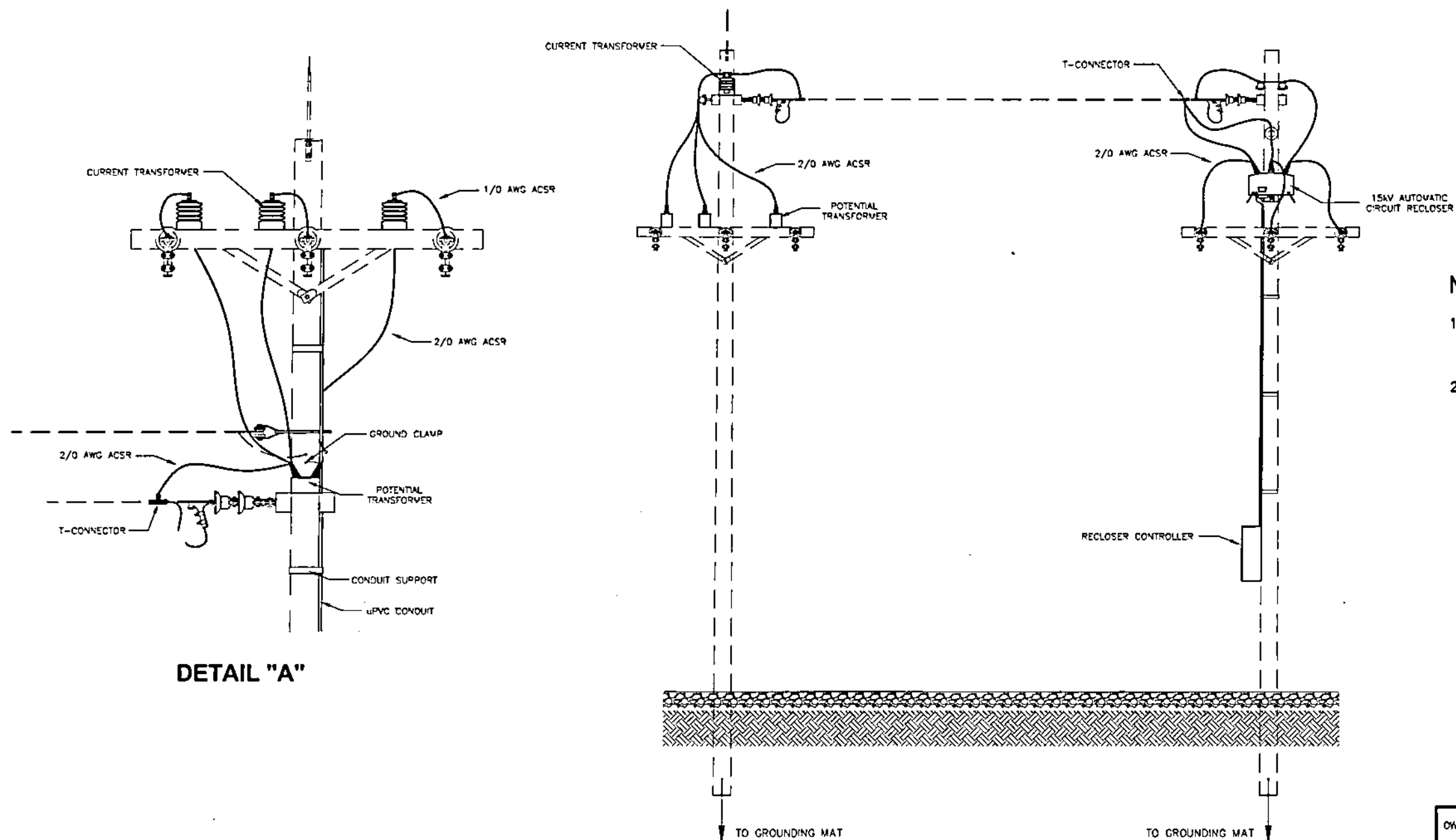
SECTION A-A

NOTES:

1. ALL EQUIPMENT/STRUCTURES DRAWN IN HIDDEN LINES ARE EXISTING. ALL OTHERS ARE INCLUDED IN THE CONTRACT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE WITH ALL DAMAGES OCCURRED DURING THE DISMANTLING AND INSTALLATION WORKS. ALL DAMAGED EQUIPMENT SHALL BE REPLACED BY THE SUPPLIER AT NO ADDITIONAL COST TO NPC.

OWNER:		 NATIONAL POWER CORPORATION AGHAM ROAD, DILIMAN, QUEZON CITY	
PROJECT: SUPPLY, DELIVERY, INSTALLATION, TEST AND COMMISSIONING OF 15KV AUTOMATIC CIRCUIT RECLOSERS AND KILOWATT-HOUR DEMAND METERS FOR ALMAGRO MINI GRID DIESEL POWER PLANTS LOCATION: Brgy. Lunang I, Almagro, Western Samar			
TITLE: DETAILS OF TAKE-OFF STRUCTURE (1/2) (LUNANG DPP)			
DESIGNED	BY	CHKD	DATE
DRAWN	NIC		
REVIEWED	PRINCIPAL ENGR. / ARCHT.		
CIVIL/ARCHT.			
ELEC.			
MECH.			
SUBMITTED:		 B. M. AGUILA Principal Engineer	
RECOMMENDED:		 E. Z. C. LUGO, JR. Manager, EECD	
APPROVED:		 N. G. SOMASIERRA Manager, DDO	
DWG. NO. LunDPP-BDE-17.002		P.R. NO. S2-MGA22-001	
SCALE: N.T.S.		BID DRAWING REV. 0	

REV.	DATE	NATURE OF REVISION	BY	CHKD.	RECD.	APPD.



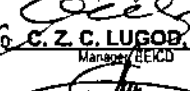
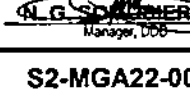


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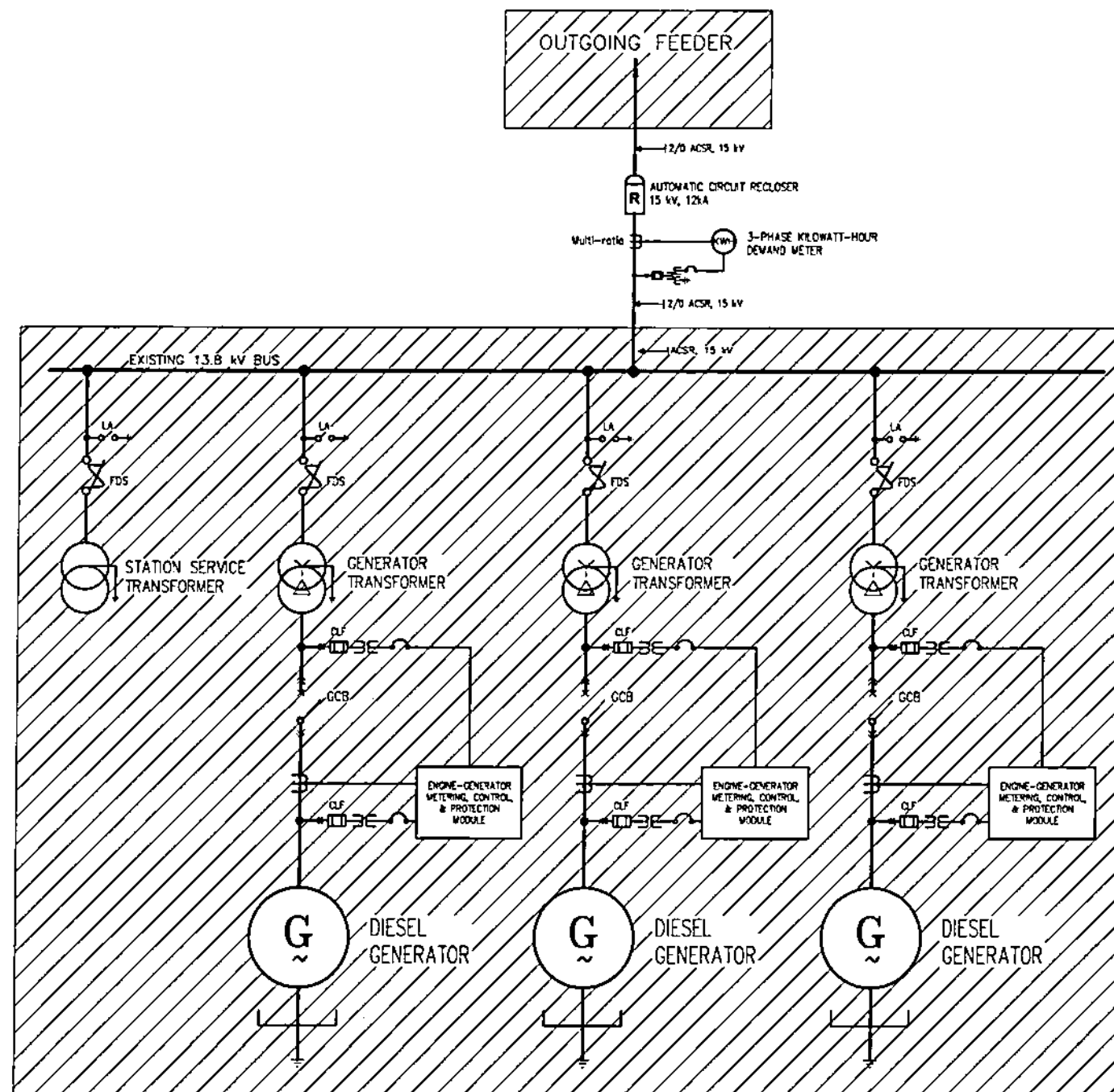
SECTION B-B

NOTES:

1. ALL EQUIPMENT/STRUCTURES DRAWN IN HIDDEN LINES ARE EXISTING. ALL OTHERS ARE INCLUDED IN THE CONTRACT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE WITH ALL DAMAGES OCCURRED DURING THE DISMANTLING AND INSTALLATION WORKS. ALL DAMAGED EQUIPMENT SHALL BE REPLACED BY THE SUPPLIER AT NO ADDITIONAL COST TO NPC.

OWNER:		 NATIONAL POWER CORPORATION AGHAM ROAD, DILIMAN, QUEZON CITY	
PROJECT: SUPPLY, DELIVERY, INSTALLATION, TEST AND COMMISSIONING OF 15KV AUTOMATIC CIRCUIT RECLOSERS AND KILOWATT-HOUR DEMAND METERS FOR ALMAGRO MINI GRID DIESEL POWER PLANTS LOCATION: Brgy. Lunang 1, Almagro, Western Samar			
TITLE: DETAILS OF TAKE-OFF STRUCTURE (2/2) (LUNANG DPP)			
DESIGNED	BY	CHKD	DATE
DRAWN	NIC		
REVIEWED	PRINCIPAL ENGR. / ARCHT.		
CIVIL/ARCHT			
ELEC.			
MECH.			
SUBMITTED:		 B. M. AGUILA Principal Engineer	
RECOMMENDED:		 C. Z. C. LUGOB, JR. Manager, EECD	
APPROVED:		 N. G. S. SERRA Manager, DDB	
DWG. NO. LunDPP-BDE-17.003		P.R. NO. S2-MGA22-001	
SCALE: N.T.S.		BID DRAWING REV. 0	

REV.	DATE	NATURE OF REVISION	BY	CHKD.	RECD.	APPD.



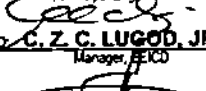
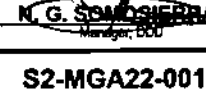


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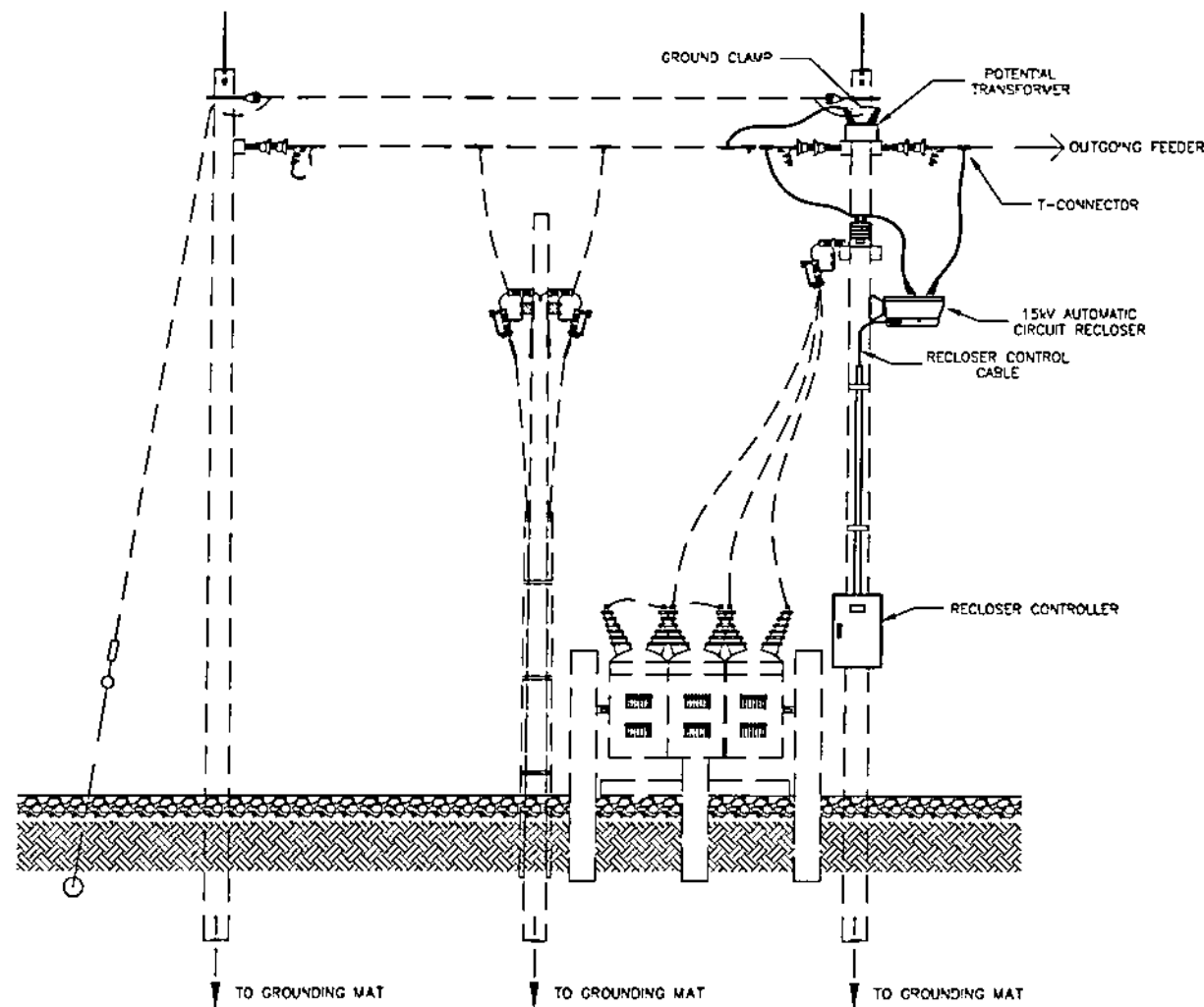
- ALL EQUIPMENT TO BE SUPPLIED SHALL BE TESTED AND PROVEN PASSED IN ACCORDANCE TO THE REQUIREMENTS OF SECTION VI. - TECHNICAL SPECIFICATIONS.
- ALL EQUIPMENT IN THE SHADED AREA ARE EXISTING.
- ALL EQUIPMENT DRAWN IN HIDDEN LINES ARE FOR FUTURE INSTALLATION. ALL OTHERS ARE INCLUDED IN THE CONTRACT.

LEGEND:

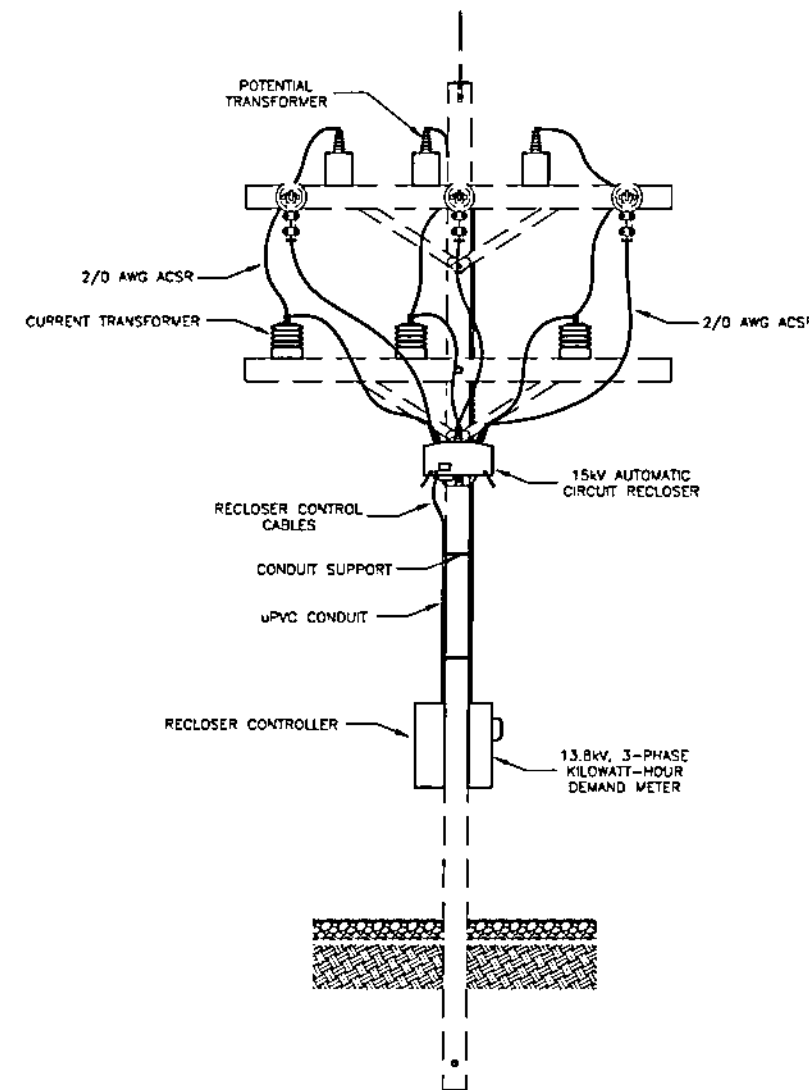
- VE VOLTAGE TRANSFORMER
 CT CURRENT TRANSFORMER
 KM KILOWATT-HOUR METER
 R 15kV AUTOMATIC CIRCUIT RECLOSER

OWNER:		 NATIONAL POWER CORPORATION AGHAM ROAD, DILIMAN, QUEZON CITY	
PROJECT: SUPPLY, DELIVERY, INSTALLATION, TEST AND COMMISSIONING OF 15kV AUTOMATIC CIRCUIT RECLOSERS AND KILOWATT-HOUR DEMAND METERS FOR ALMAGRO MINI GRID DIESEL POWER PLANTS			
LOCATION: Brgy. Biasong I, Almagro, Western Samar			
TITLE: SINGLE LINE DIAGRAM (BIASONG DPP)			
DESIGNED	BY	CHKD	DATE
DRAWN	NYC		
REVIEWED	PRINCIPAL ENGR. / ARCHT.		
CIVIL/ARCHT			
ELEC.			
MECH.			
SUBMITTED:		 B. M. AGUILERA Principal Engineer A	
RECOMMENDED:		 C. Z. C. LUGOD, JR. Manager, PECD	
APPROVED:		 N. G. SOMOSIERRA Manager, DCC	
DWG. NO. BiaDPP-BDE-17.001		P.R. NO. S2-MGA22-001	
SCALE: N.T.S.		BID DRAWING REV. 0	

REV.	DATE	NATURE OF REVISION	BY	CHKD.	RECD.	APPD.



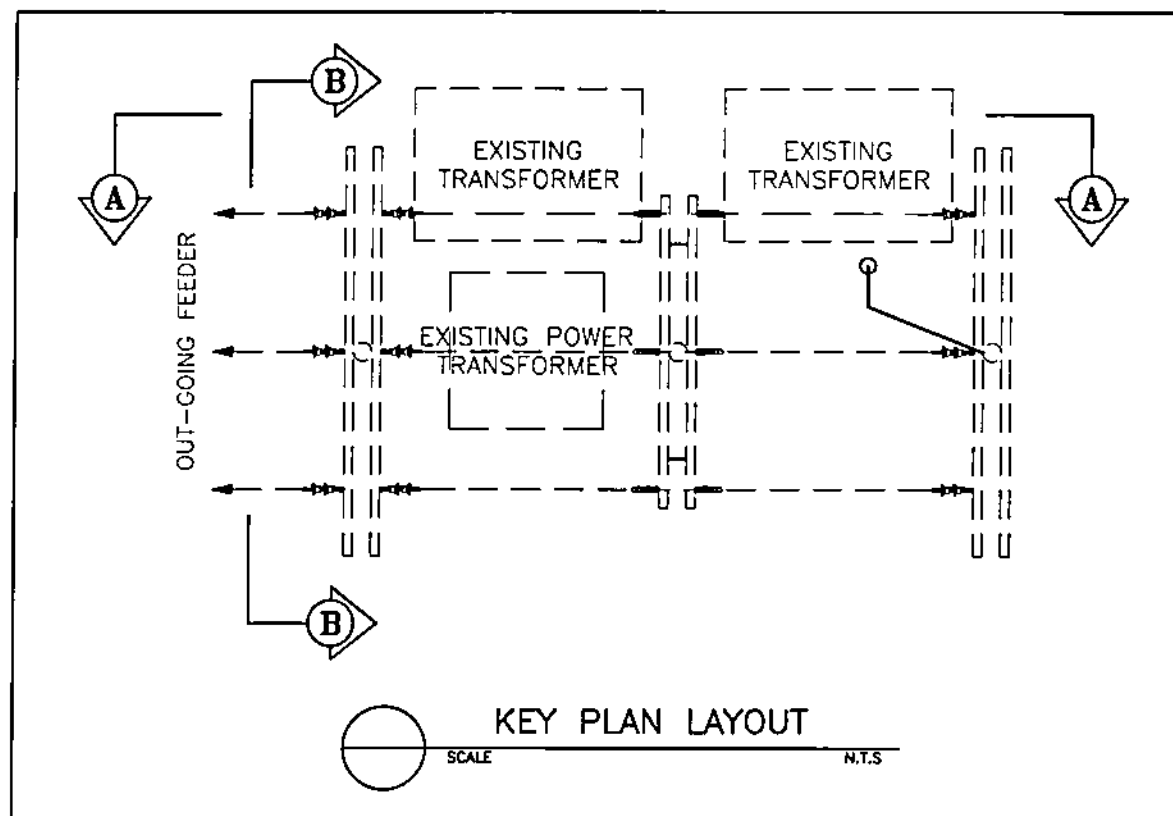
SECTION A-A



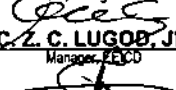
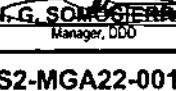


SECTION B-B

NOTES:

1. ALL EQUIPMENT/STRUCTURES DRAWN IN HIDDEN LINES ARE EXISTING. ALL OTHERS ARE INCLUDED IN THE CONTRACT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE WITH ALL DAMAGES OCCURRED DURING THE DISMANTLING AND INSTALLATION WORKS. ALL DAMAGED EQUIPMENT SHALL BE REPLACED BY THE SUPPLIER AT NO ADDITIONAL COST TO NPC.



OWNER:		 NATIONAL POWER CORPORATION AGHAM ROAD, DILIMAN, QUEZON CITY	
PROJECT: SUPPLY, DELIVERY, INSTALLATION, TEST AND COMMISSIONING OF 15kV AUTOMATIC CIRCUIT RECLOSERS AND KILOWATT-HOUR DEMAND METERS FOR ALMAGRO MINI GRID DIESEL POWER PLANTS LOCATION: Brgy. Biasong I, Almagro, Western Samar			
TITLE: DETAILS OF TAKE-OFF STRUCTURE (BIASONG DPP)			
DESIGNED	BY	CHKD	DATE
DRAWN	NIC		
REVIEWED	PRINCIPAL ENGR. / ARCHT.		
CIVIL/ARCHT.			
ELEC.			
MECH.			
SUBMITTED:		 B. M. AGUILA Principal Engineer A	
RECOMMENDED:		 C. Z. C. LUGO, JR. Manager, E&C	
APPROVED:		 N. G. SOMOLERA Manager, DDO	
DWG NO. BlaDPP-BDE-17.002		P.R. NO. S2-MGA22-001	
SCALE: N.T.S.		BID DRAWING REV. 0	

REV.	DATE	NATURE OF REVISION	BY	CHKD.	RECD.	APPD.