PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

REBIDDING OF PROVISION OF LABOR,
MATERIALS, EQUIPMENT RENTAL AND
OTHER INCIDENTALS NEEDED FOR THE
INSTALLATION OF SAN ANTONIO SOLARPOWERED IRRIGATION SYSTEM (SPIS) IN
BRGY. SAN ANTONIO, ARINGAY, LA UNION

IB No.: DA-RFO 1-2025-INFRA-031-R

Sixth Edition July 2020

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	Warranty Liability of the Contractor

Glossary of Terms, Abbreviations, and Acronyms

ABC –Approved Budget for the Contract.

ARCC - Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

Contractor – is a natural or juridical entity whose proposal was accepted by the Procuring Entity and to whom the Contract to execute the Work was awarded. Contractor as used in these Bidding Documents may likewise refer to a supplier, distributor, manufacturer, or consultant.

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

Foreign-funded Procurement or Foreign-Assisted Project –Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

GFI – Government Financial Institution.

GOCC –Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term "related" or "analogous services" shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

 ${\bf SLCC-Single\ Largest\ Completed\ Contract}.$

UN – United Nations.

Section I. Invitation to Bid





Republic of the Philippines **DEPARTMENT OF AGRICULTURE**

Regional Field Office No. 1 Aguila Road, Sevilla, City of San Fernando, La Union Telephone No. (072) 242 1045/1046



INVITATION TO BID FOR THE REBIDDING OF PROVISION OF LABOR, MATERIALS, EQUIPMENT RENTAL AND OTHER INCIDENTALS NEEDED FOR THE INSTALLATION OF SAN ANTONIO SOLAR-POWERED IRRIGATION SYSTEM (SPIS) IN BRGY. SAN ANTONIO, ARINGAY, LA UNION

- 1. The Department of Agriculture Regional Field Office 1 (DA-RFO 1), through the GAA FY 2025 intends to apply the sum of Six Million Four Hundred Thirty-Five Thousand Eight-One Pesos and Forty-Eight Centavos (PhP6,435,081.48) being the Approved Budget for the Contract (ABC) to payment under the contract for the REBIDDING OF PROVISION OF LABOR, MATERIALS, EQUIPMENT RENTAL AND OTHER INCIDENTALS NEEDED FOR THE INSTALLATION OF SAN ANTONIO SOLAR-POWERED IRRIGATION SYSTEM (SPIS) IN BRGY. SAN ANTONIO, ARINGAY, LA UNION with project identification number DA RFO-1-2025-INFRA-031-R. Bids received in excess of the ABC shall be automatically rejected at bid opening.
- 2. The DA-RFO 1 now invites bids for the above procurement project with the following details and specifications:

DETAILS AND SPECIFICATIONS

Project Location: Brgy. San Antonio, Aringay, La Union

Project Description: Installation of SPIS with a pump discharge of a 1,300 cu.m/day at 13m static head and total pipe

Scope of work:

	Description	Qty	Unit
I.	MOBILIZATION AND DEMOBILIZATION	1.00	l.s.
II.	PROVISION OF SAFETY AND HEALTH	1.00	l.s.
III.	CONSTRUCTION OF TEMPORARY FACILITY	1.00	l.s.
IV.	EARTHWORKS	901.41	cu.m.
V.	RSB WORKS	7663.09	kgs.
VI.	FORM WORKS	502.31	sq.m.
VII.	CONCRETE WORKS	104.18	cu.m.
VIII.	PV MODULE AND MOUNTING	26,400.00	watts
IX.	WATER PUMP & CONTROLLER/INVERTER	1.00	set
Χ.	IRON, TINSMITHRY AND CARPENTRY WORKS	1.00	lot
XI.	CABLE AND ELECTRICAL WORKS	1.00	lot
XII.	DISTRIBUTION WORKS	26.00	m
XIII.	MASONRY, PLASTERING, PAINTING & WATER PROOFING WORKS	57.63	sq.m.
XIV.	DEWATERING WORKS	1.00	lot
XV.	DOORS & WINDOWS	2.29	sq.m.

XVI.	STONE MASONRY WORKS	75.12	cu.m.	
XVII.	AUXILIARY WORKS	1.00	lot	

MINIMUM TECHNICAL PERSONNEL REQUIRED:

- 1 Project Engineer
- 1 Foreman
- 4 Skilled Workers
- 8 Unskilled Workers
- 2 Equipment Operators

MINIMUM EQUIPMENT REQUIRED:

- 1 Backhoe, 0.75 cu.
- 1 Concrete Mixer, one bagger
- 1 HDPE butt fusion machine
- 1 Dump Truck (12cu.yd)
- 1 Plate Compactor
- 1 Concrete Vibrator
- Minor tools

Completion of the Works is within <u>one hundred forty (140) calendar days</u>. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. (Instructions to Bidders).

3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary "pass/fail" criterion as specified in the Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least seventy-five percent (75%) interest or outstanding capital stock belonging to citizens of the Philippines.

4. Prospective bidders may obtain further information from and inspect the Bidding Documents at the address given below during **office hours** at **8:00 AM** to **5:00 PM**, **Monday to Friday**.

Department of Agriculture - Regional Field Office 1 Aguila Rd., Sevilla, City of San Fernando, La Union

- 5. A complete set of Bidding Documents may be acquired by interested Bidders from **May 26**, **2025 to June 17**, **2025** the address given and websites below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **PhP10,000.00**. The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.
- 6. The **DA-RFO 1** will hold a Pre-Bid Conference on **03 June 2025, 2:00 PM** at DA-RFO 1, 5th Floor Conference Room, Aguila Road, Sevilla, City of San Fernando, La Union, which shall be open to prospective bidders.
- 7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated above on or before 17 June 2025, 2:00 PM. 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 **17 June 2025, 2:00 PM** at DA-RFO 1, 5th Floor Conference Room, Aguila Road, Sevilla, City of San Fernando, La Union. Bids will be opened in the presence of the bidders or their authorized representatives.

10. ADDITIONAL INSTRUCTIONS TO BIDDERS:

- a. The bidders or their duly authorized representatives may attend the bid opening;
- b. In case a representative will be attending the Bid Opening, a Special Power of Attorney (SPA), Secretary's Certificate, Board Resolution or any other forms of authorization (notarized), as the case may be, together with the Companyissued Identification Card or any valid ID must be presented upon submission of the bid proposal at the BAC Secretariat. The name/title of the project must be indicated in the authorization or SPA:
- c. Each Bidder shall submit one copy of the first and second components of its Bid. Bidders shall submit their bids with proper index tabbing using the forms specified in the Bidding Documents in two (2) separate sealed bid envelopes, and which shall be submitted simultaneously;

The first component which is the Technical Eligibility requirements must be soft-bound, marked with the name of the contract and its IB No., name and address of the bidder, and enclosed in an envelope, sealed with signature and marked with the name and address of the bidder, addressed to the BIDS AND AWARDS COMMITTEE (BAC) DA RFO-1 CITY OF SAN FERNANDO, LA UNION, the specific Identification No. and the warning "DO NOT OPEN BEFORE..." the date and time for the bid opening.

The second component being the Financial requirements may be soft-bound/fastened in a folder, marked with the **name of the contract** and its **IB No., name and address of the bidder**, and enclosed in an envelope, sealed with signature and marked with the **name of the contract**, **name and address of the bidder**, addressed to the **BIDS AND AWARDS COMMITTEE (BAC) DA RFO-1 CITY OF SAN FERNANDO. LA UNION**, the **specific Identification No.** and the warning "DO NOT OPEN BEFORE..." the date and time for the bid opening.

The Technical and Financial Requirement each in separate envelopes, shall be enclosed in a mother envelope with the same sealing and markings.

Non-compliance with index tabbings shall not be a ground for outright disqualification or declaration of ineligibility. The improper index tabbings must be duly acknowledged by the bidder/representative and be subject to the bid evaluation and post-qualification of the Technical Working Group (TWG) as to their substance.

d. The Technical Specifications (as part of Tab f - Project Requirements), to be signed by the bidder/authorized representative and submit during bid opening,

of the unit offered must be duly SIGNED/COUNTERSIGNED AND SEALED by a Licensed Agricultural and Biosystems Engineer in accordance with Republic Act 10915, dated 21 July 2016, otherwise known as "Philippine Agricultural and Biosystems Engineering Act of 2016" and Department of Agriculture (DA) Memorandum Order No. 50, Series of 2020. The Technical Specification must be supported with the following:

- Colored, clear and readable original copies of brochures (in English language) of the offered goods (pump, inverter/controller and solar module/panel).
- Other technical specification requirements:
 - With minimum warranty of 1 year on pump and controller/inverter, accessories, and services
 - With minimum warranty of 15 years on PV Module
- e. Valid AMTEC Test Report for the pump is required during bid opening. Upon completion of the project the RAED shall conduct Acceptance testing. If the system fails to meet the prescribed specifications and performance standards, the contractor shall institute corrective measures for the system to conform to specifications and standards as requirement for payment. Otherwise, the procuring entity shall not accept the project and proceed with the termination of contract on the ground that the supplier/ winning bidder, who is in default, fails to perform its obligation under the Contract.
- f. Permit to Operate and Notification Letter from BAFE shall be verified during post-qualification.
- g. All documents in the Financial Requirements envelope must be duly signed and/or initialed, as needed, by the bidder/authorized representative on EACH AND EVERY PAGE thereof.
- 11. The **DA-RFO 1** 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 Section 41 of the 2016 Revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
- 12. For further information, please refer to:

DENNIS I. TACTAC, ABE

Chairperson, Bids and Awards Committee

Department of Agriculture - Regional Field Office 1

Aguila Road, Sevilla, City of San Fernando, La Union

Tel. No.:(072) 242/1045-46, Ext. 07 E-mail add: bacsec@ilocos.da.gov.ph

13. For downloading of Bidding Documents, you may visit the following websites:

DA-RF01 Website: https://ilocos.da.gov.ph/

PhilGEPS Website: https://www.philgeps.gov.ph/

Approved by:

(Sgd.) GILBERT D. RABARA, DVM

Vice-Chairperson, Bids and Awards Committee

Invitation to Bid Identification No. DA-RFO 1-2025-INFRA-031-R

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, **Department of Agriculture - Regional Field Office 1** (**DARFO 1**) invites Bids for the **REBIDDING OF PROVISION OF LABOR**, **MATERIALS**, **EQUIPMENT RENTAL AND OTHER INCIDENTALS NEEDED FOR THE INSTALLATION OF SAN ANTONIO SOLAR-POWERED IRRIGATION SYSTEM (SPIS) IN BRGY. SAN ANTONIO, ARINGAY, LA UNION with Project Identification Number DA-RFO 1-2025-INFRA-031-R**.

The Procurement Project (referred to herein as "Project") is for the construction of Works, as described in Section VI (Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below for GAA FY 2025 in the amount of Six Million Four Hundred Thirty-Five Thousand Eight-One Pesos and Forty-Eight Centavos (PhP6,435,081.48).

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 Manual 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 invitation to bid 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 inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) 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, Coercive, and Obstructive Practices

The Procuring Entity, as well as the Bidders and Contractors, 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.

5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC) that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted, if necessary, by the Bidder to current prices using the PSA's CPI, except under conditions provided for in Section 23.4.2.4 of the 2016 revised IRR of RA No. 9184.

A contract is considered to be "similar" to the contract to be bid if it has the major categories of work stated in the **BDS**.

- 5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

6. Origin of Associated 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.

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 fifty percent (50%) of the Project.

The Procuring Entity has prescribed that subcontracting is not allowed:

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, 5th Floor Conference Room, Aguila Road, Sevilla, City of San Fernando, La Union 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 IX. Checklist of Technical and Financial Documents**.
- 10.2. 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. 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.
- 10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.
- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.
- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set 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 IX. Checklist of Technical and Financial Documents**.
- 11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.3. 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.

12. Alternative Bids

Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic technical design as indicated in the drawings and specifications. Unless there is a value engineering clause in the **BDS**, alternative Bids shall not be accepted.

13. Bid Prices

All bid prices for the given scope of work in the Project as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances as determined by the NEDA and approved by the GPPB pursuant to the revised Guidelines for Contract Price Escalation guidelines.

14. Bid and Payment Currencies

- 14.1. 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.
- 14.2. Payment of the contract price shall be made in:
 - a. Philippine Pesos.

15. Bid Security

- 15.1. 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**.
- 15.2. The Bid and bid security shall be valid until **October 15, 2025.** Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. 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 to the given website 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.

17. Deadline for Submission of Bids

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**.

18. Opening and Preliminary Examination of Bids

18.1. 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.

18.2. The preliminary examination of Bids shall be governed by Section 30 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 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 15 shall be submitted for each contract (lot) separately.
- 19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

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

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

Bid Data Sheet

ITB Clause				
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: INSTALLATION OF SOLAR-POWERED IRRIGATION SYSTEM (SPIS)			
7.1	N/A			
10.3	N/A			
10.4	The key personnel must meet the required minimum years of experience set below:			
	Key Personnel	General Experience	Relevant	Experience
	Project Engineer	3 years	Construction	on Supervision
	Foreman	2 years		y/Carpentry
	Equipment Operator	1 year		oment Operation h NC II
10.5	The minimum major equipment requirements are the following:			wing:
	Equipment	Capacity	No. of Units	
	Backhoe	0.75 cu.	1	
	Concrete Mixer	one-bagger	1	
	HDPE butt fusion machine		1	
	Dump Truck	12 cu.yd	1	
	Plate Compactor		1	
	Concrete Vibrator		1	
	Minor tools			
12	N/A			
15.1	 The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts: a. The amount of not less than Php128,701.63 bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; b. The amount of not less than Php321,754.07 bid security is in Surety Bond. 			
19.2	Partial bid is not allowed.			
20	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.			

21	Additional contract documents relevant to the Project that may be required by		
	existing laws and/or the Procuring Entity, such as construction schedule and S-		
	curve, manpower schedule, construction methods, equipment utilization		
	schedule, construction safety and health program approved by the DOLE, and		
	other acceptable tools of project scheduling.		

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.

2. Sectional Completion of Works

If sectional completion is specified in the **Special Conditions of Contract** (SCC), references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date shall apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

3. Possession of Site

- 3.1 The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the SCC, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.
 - 3.2 If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

The Contractor shall employ the key personnel named in the Schedule of Key Personnel indicating their designation, in accordance with **ITB** Clause 10.3 and specified in the **BDS**, to carry out the supervision of the Works.

The Procuring Entity will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are equal to or better than those of the personnel listed in the Schedule.

5. Performance Security

- 5.1. Within ten (10) calendar days from receipt of the Notice of Award 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.
- 5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

6. Site Investigation Reports

The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to in the SCC supplemented by any information obtained by the Contractor.

7. Warranty

- 7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.
- 7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the **SCC**.

8. Liability of the Contractor

Subject to additional provisions, if any, set forth in the **SCC**, the Contractor's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

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

9. Termination for Other Causes

Contract termination shall be initiated in case it is determined *prima facie* by the Procuring Entity that the Contractor has engaged, before, or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation, such as, but not limited to corrupt, fraudulent, collusive, coercive, and obstructive practices as stated in **ITB** Clause 4.

10. Dayworks

Subject to the guidelines on Variation Order in Annex "E" of the 2016 revised IRR of RA No. 9184, and if applicable as indicated in the SCC, the Dayworks rates in the Contractor's Bid shall be used for small additional amounts of work only when the Procuring Entity's Representative has given written instructions in advance for additional work to be paid for in that way.

11. Program of Work

- 11.1. The Contractor shall submit to the Procuring Entity's Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the **SCC**.
- 11.2. The Contractor shall submit to the Procuring Entity's Representative for approval an updated Program of Work at intervals no longer than the period stated in the SCC. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity's Representative may withhold the amount stated in the SCC from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

12. Instructions, Inspections and Audits

The Contractor shall permit the GOP or the Procuring Entity to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors of the GOP or the Procuring Entity, as may be required.

13. Advance Payment

The Procuring Entity shall, upon a written request of the Contractor which shall be submitted as a Contract document, make an advance payment to the Contractor in an amount not exceeding fifteen percent (15%) of the total contract price, to be made in lump sum, or at the most two installments according to a schedule specified in the SCC, subject to the requirements in Annex "E" of the 2016 revised IRR of RA No. 9184.

14. Progress Payments

The Contractor may submit a request for payment for Work accomplished. Such requests for payment shall be verified and certified by the Procuring Entity's Representative/Project Engineer. Except as otherwise stipulated in the SCC, materials and equipment delivered on the site but not completely put in place shall not be included for payment.

15. Operating and Maintenance Manuals

- 15.1. If required, the Contractor will provide "as built" Drawings and/or operating and maintenance manuals as specified in the **SCC**.
- 15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative may withhold the amount stated in the SCC from payments due to the Contractor.

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
2	N/A
4.1	Schedule of construction in full shall start within <u>7 calendar days</u> from receipt of the Notice to Proceed
6	N/A
7.2	[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:] Five (5) years.
10	a. Dayworks are applicable at the rate shown in the Contractor's original Bid.
11.1	The Contractor shall submit the Program of Work (PERT-CPM, Construction Schedule, S-Curve and Construction Methods) to the Procuring Entity's Representative within 10 calendar days of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is 10% of the 15% Advance Payment.
13	The amount of the advance payment is 15% of the Contract Price.
14	Materials and equipment delivered on the site but not completely put in place (Actual Accomplishment) shall not be included for payment.
15.1	The "as built" Drawings and/or operating and maintenance manuals shall be required prior to the final payment.
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is 10% of the final billing.

Section VI. Specifications

Section VII. Drawings

[Insert here a list of Drawings. The actual Drawings, including site plans, should be attached to this section, or annexed in a separate folder.]

Section VIII. Bill of Quantities

Section IX. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

(a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) in accordance with Section 8.5.2 of the IRR:

Technical Documents

- (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; and
- (c) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; and
- (d) Special PCAB License in case of Joint Ventures; and registration for the type and cost of the contract to be bid; and
- (e) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;

<u>or</u>

Original copy of Notarized Bid Securing Declaration; and

- (f) Project Requirements, which shall include the following:
 - a. Organizational chart for the contract to be bid;
 - b. List of contractor's key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data:
 - c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be; **and**
- (g) Original duly signed Omnibus Sworn Statement (OSS);

 and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

(h) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

Class "B" Documents

(i) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence;

duly notarized statements from all the potential joint venture partners stating

that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE

(j) Original of duly signed and accomplished Financial Bid Form; and

Other documentary requirements under RA No. 9184

- (k) Original of duly signed Bid Prices in the Bill of Quantities; and
- (l) Duly accomplished Detailed Estimates Form, including a summary shee indicating the unit prices of construction materials, labor rates, and equipmen rentals used in coming up with the Bid; and
- (m) Cash Flow by Quarter.



BILL OF QUANTITIES

PROJECT NAME:

INSTALLATION OF SAN ANTONIO SOLAR-POWERED IRRIGATION SYSTEM (SPIS)

PROJECT LOCATION:

BRGY. SAN ANTONIO, ARINGAY, LA UNION

PROJECT DESCRIPTION:

Installation of SPIS with a pump discharge of a 1,300 cu.m/day at 13m static head and total pipe length of 26m.

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
	SCOPE OF WORK:				
I.	MOBILIZATION AND DEMOBILIZATION	l.s	1.00		
II.	PROVISION OF SAFETY AND HEALTH	l.s	1.00		
III.	CONSTRUCTION OF TEMPORARY FACILITY	l.s	1.00		
IV.	EARTHWORKS	cu.m	901.41		
V.	RSB WORKS	kgs	7,663.09		
VI.	FORM WORKS	sq.m	502.31		
VII.	CONCRETE WORKS	cu.m	104.18		
VIII.	PV MODULE AND MOUNTING	watts	26,400.00		
IX.	WATER PUMP & CONTROLLER/INVERTER	set	1.00		
X.	IRON, TINSMITHRY & CARPENTRY WORKS	lot	1.00		
XI.	CABLE AND ELECTRICAL WORKS	lot	1.00		
XII.	DISTRIBUTION WORKS	m	26.00	3 1	
XIII.	MASONRY, PLASTERING, PAINTING & WATER PROOFING WORKS	sq.m	57.63		
XIV.	DEWATERING WORKS	lot	1.00		
XV.	DOORS AND WINDOWS	sq.m	2.29		
XVI.	STONE MASONRY WORKS	cu.m	75.12		
XVII.	AUXILIARY WORKS	lot	1.00		
				GRAND TOTAL:	

NUMBER OF DAYS TO COMPLETE THE PROJECT: 140 Calendar Days	
TOTAL AMOUNT OF BID (in words and figures):	
Name in Print Company/Office/Firm	
Name in Frint Company/Office/Firm	Full Name of Bidder/Authorize Representative
Address:	
	By: Signature Over Printed Name
	Signature over Frinten Name



DEPARTMENT OF AGRICULTURE REPUBLIC OF THE PHILIPPINES

REGIONAL FIELD OFFICE NO. 1

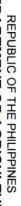
Aguila Road, Sevilla, City of San Fernando, La Union

INSTALLATION OF SAN ANTONIO SOLAR POWERED **IRRIGATION SYSTEM (SPIS)**

BRGY. SAN ANTONIO, ARINGAY, LA UNION

or more	Con Organizons	CHIEF, MED	ENGINEER IL EASD	LOCATION: BROY: SAN ANTONIO, ARENGAY, LA UNION	
NAME OF THE PROPERTY OF THE PR	BENIS L TACTAC, ABE	MARK HARRY C. PASTOR, ABE	BOC, AF	INSTALLATION OF SAN ANTONIO SOLAR POWERED IRRIGATION SYSTEM (SPIS)	DEPARTMENT OF AGRICULTURE DEPARTMENT OF AGRICULTURE DEPARTMENT OF AGRICULTURE DEPARTMENT OF AGRICULTURE RESIDENCE TO THE PARTMENT OF AGRICULTURE RESIDENCE TO THE PARTMENT OF AGRICULTURE DEPARTMENT OF
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APPROVED:	RECOMMENDING APPROVAL	CHECKED & REVIEWED BY:	PREPARED BY:	BOUNDALL TAIL E	
a nanon man	Date of the state				

M EXECUTIVE DIRECTOR



PLANS-SSIP/FMR/PHF/OTHERS-20

REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE

REGIONAL FIELD OFFICE NO. 1

Aguila Road, Sevilla, City of San Fernando, La Union

COORDINATES: Lat 16.399846° Lon 120.4003112°

NAME OF PROJECT: INSTALLATION OF SAN ANTONIO SPIS LOCATION: BRGY. SAN ANTONIO, ARINGAY, LA UNION

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ELECTRICAL DIAGRAM	12 OF 15	
FENCE PLAN	13 OF 15	
GATE AND MARKER AND FLOOD LIGHT DETAILS	14 OF 15	

	3 DBO IECT COST (Bkg)
10.0	SERVICE AREA (ha.)
Rice-Corn-HVC	CROPPING PATTERN
	2. DESIGN SERVICE AREA AND CROPPING PATTERN
EM	INSTALLATION OF SOLAR POWERED IRRIGATION SYSTEM
	1. PROJECT FACILITIES
TURES	MAIN PROJECT FEATURES

REGIONAL FIELD OFFICE NO. 1
AGRICULTURE
AGRICADO SELLA MATERIACO OFFICE NO. 1 **REGIONAL AGRICULTURAL ENGINEERING DIVISIO**

PREPARED FROM THE OFFICE OF THE:

INSTALLATION OF SAN ANTONIO SOLAR POWERED IRRIGATION SYSTEM (SPIS)

FENCE DETAILS, CHB WALL DETAILS & CANAL LINING PLAN

15 OF 15

CHRISTOPHER P. TIBOC, ABE

CHECKED & REVIEWED BY:

MARK HARRY & PASTOR, ABE

OPERATIONS

JOHN'B. PASCUAL, DVM
OIC, REGIONAL EXECUTIVE DIRECTOR

APPROVED

SHEET CONTENTS

SHEET NO.

LIST OF DRAWINGS AND FEATURES

FD-AED-002 Rev. 02, Eff.Date: 01/26/2024 DICATION: BRGY, SAN ANTONIO, ARINGAY, LA UNION

15



REGIONAL FIELD OFFICE NO. 1

Aguila Road, Sevilla, City of San Fernando, La Union

INSTALLATION OF SAN ANTONIO SOLAR POWERED **IRRIGATION SYSTEM (SPIS)**

BRGY. SAN ANTONIO, ARINGAY, LA UNION

INSTALLATION OF SAN ANTONIO SOLAR POWERED IRRIGATION SYSTEM (SPIS) CHRISTOPHER P. TIBOC, ABE MARK HARRY C. PASTOR, ABE OC REGIONAL EXECUTIVE DIRECTOR

PLANS-SSIP/FMR/PHF/OTHEF



REGIONAL FIELD OFFICE NO. 1 Aguila Road, Sevilla, City of San Fernando, La Union REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE

LOCATION: BRGY. SAN ANTONIO, ARINGAY, LA UNION NAME OF PROJECT: INSTALLATION OF SAN ANTONIO SPIS

COORDINATES: Lat 16.399846° Lon 120.4003112°

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FENCE DETAILS, CHB WALL DETAILS & CANAL LINING PLAN	15 OF 15

6,435,081.48	3. PROJECT COST (Php.)
10.0	SERVICE AREA (ha.)
Rice-Corn-HVC	CROPPING PATTERN
	2. DESIGN SERVICE AREA AND CROPPING PATTERN
M	INSTALLATION OF SOLAR POWERED IRRIGATION SYSTEM
	1. PROJECT FACILITIES
TURES	MAIN PROJECT FEATURES



CHRISTOPHER P. TIBOC, ABE MARK HARRY & PASTOR, ABE

CHECKED & REVIEWED BY

BENNIST. TACTAC, ABE

JOHN'B. PASCUAL, DVM

APPROVED

LIST OF DRAWINGS AND FEATURES



SHEET NO.

FD-AED-002 Rev. 02, Eff.Date: 01/26/2024

LEGIONAL AGRICULTURAL ENGINE

PREPARED FROM THE OFFICE OF THE

DEPARTMENT OF AGRICULTURE





INSTALLATION OF SAN ANTONIO SOLAR POWERED IRRIGATION

SYSTEM (SPIS)

LOCATION: BROY: SAN ANTONIO, ARINGAY, LA UNION PREPARED BY: CHRISTOPHER P. TIBOC, ABE

CHECKED & REVIEWED BY

SITE DEVELOPMENT PLAN

SCALE

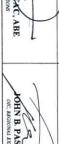
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MARK HARRY G. PASTOR, ABE















FD-AED-002 Rev. 02, Eff.Date: 01/26/2024

DEPARTMENT OF AGRICULTURE
REGIONAL FIELD OFFICE NO. 1 FD-AED-002 Rev. 02, Eff.Date: 01/26/2024 REGIONAL AGRICULTURAL ENGIN PROJECT TITLE: INSTALLATION OF SAN ANTONIO SOLAR POWERED IRRIGATION SYSTEM (SPIS) BROY, SAN ANTONIO, ARINGAY, LA UNION CHRISTOPHER P. TIBOC, ABE MARK HARK G. PASTOR, ABE CHECKED & REVIEWED BY: OHN B. PASCUAL, DVM

CROSS SECTION

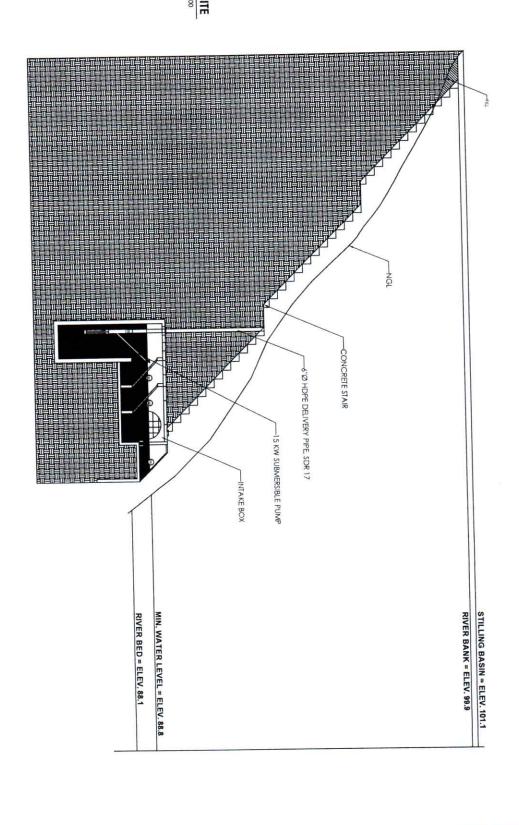
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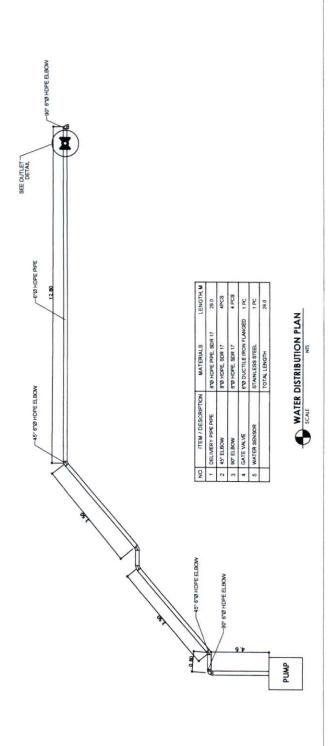


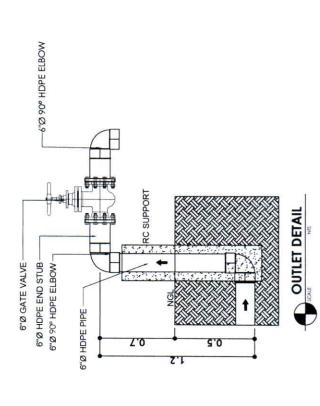
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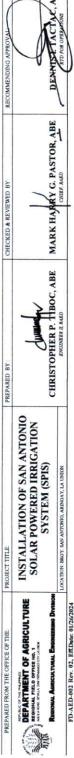
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2 PIPE LENGTH DAILY OUTPUT DATA 13.0 M 26.0 M 152 4 M











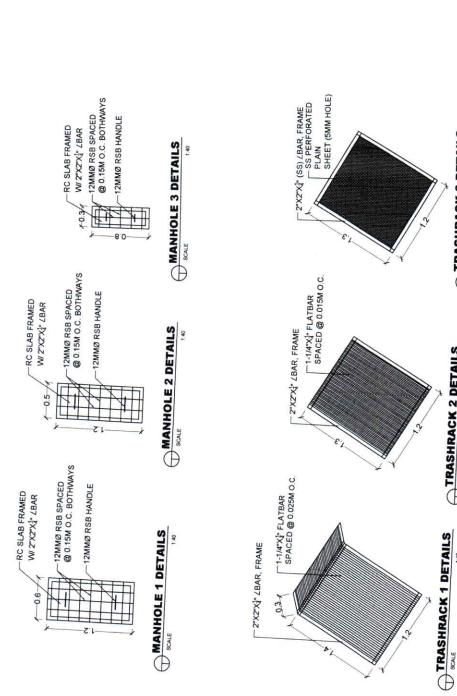
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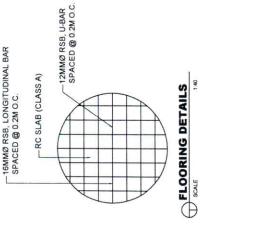
SHEET CONTENTS JOHN B. PASCUAL, DVM

DISTRIBUTION LINE SCHEDULE OUTLET DETAILS

45

FD-AED-002 Rev. 02, Eff.Date: 01/26/2024







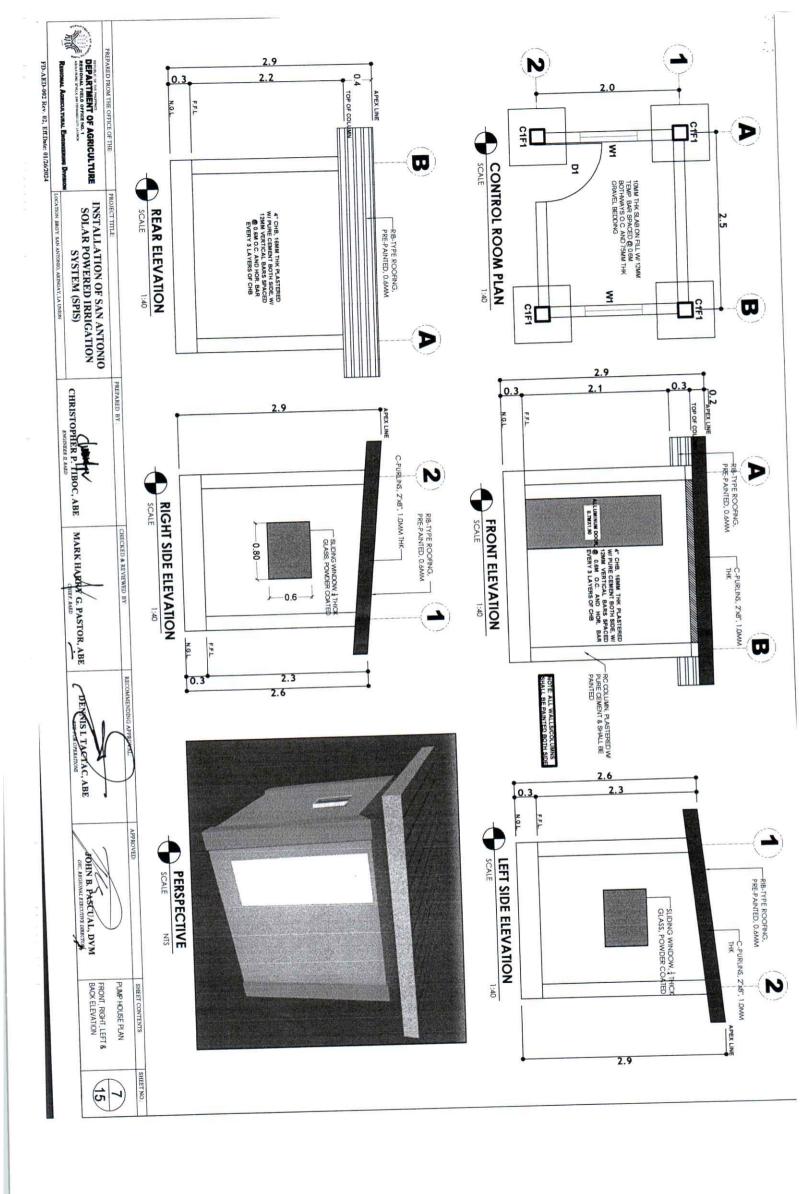
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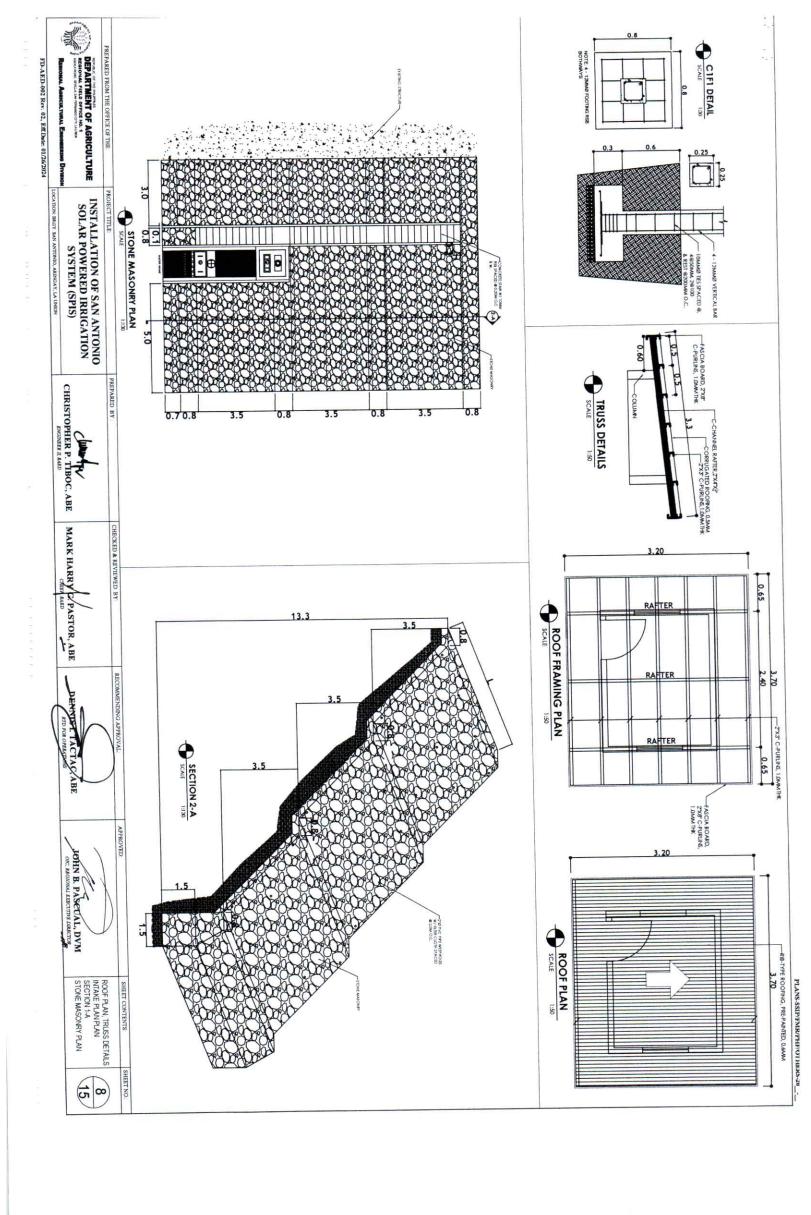
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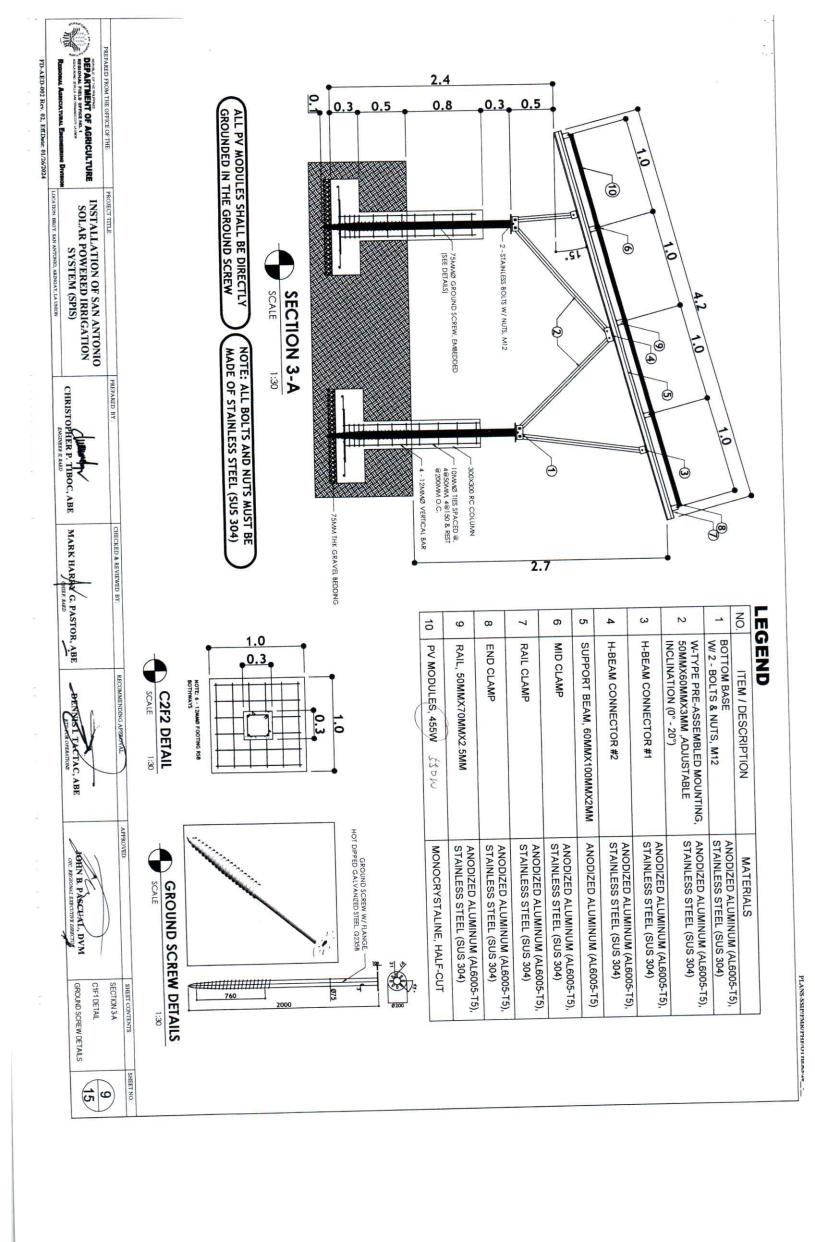
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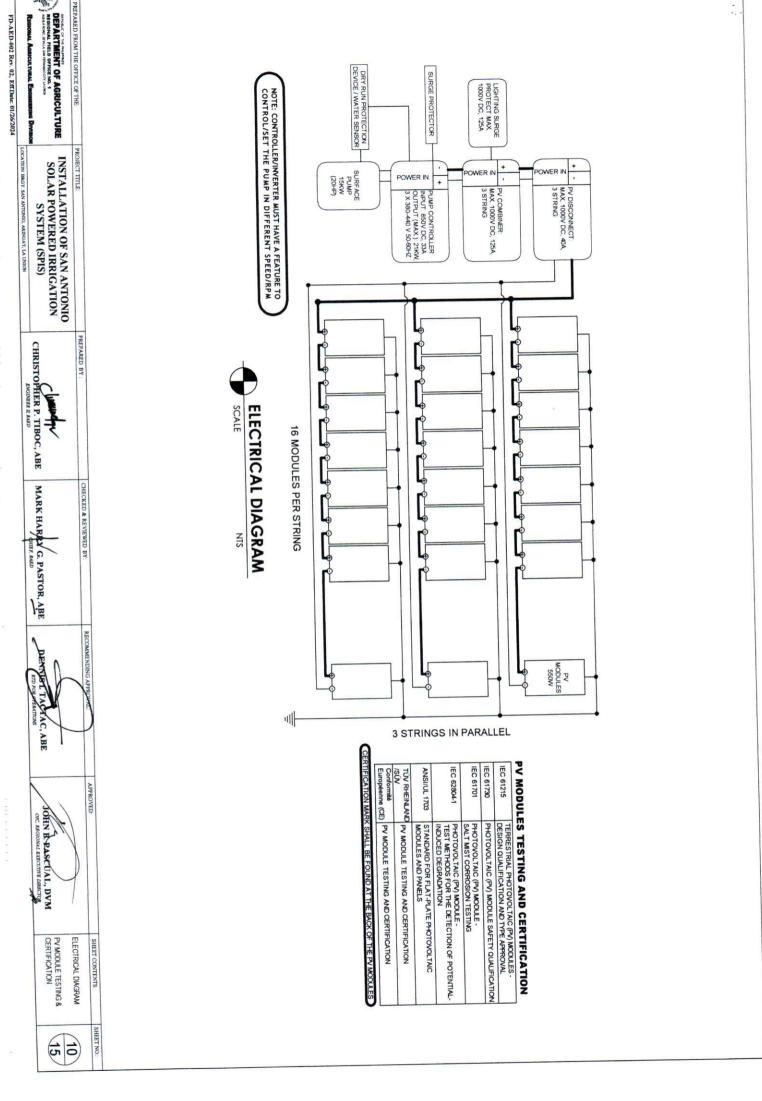
TRASHRACK DETAILS

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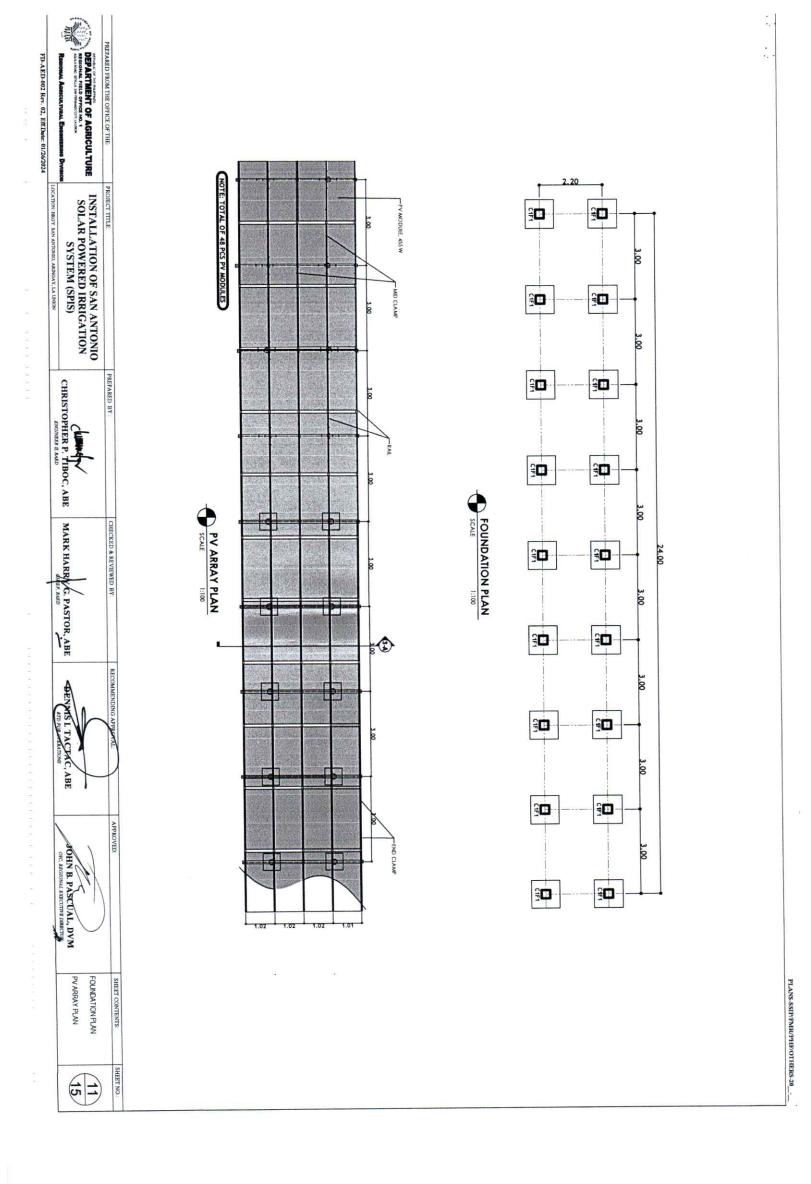


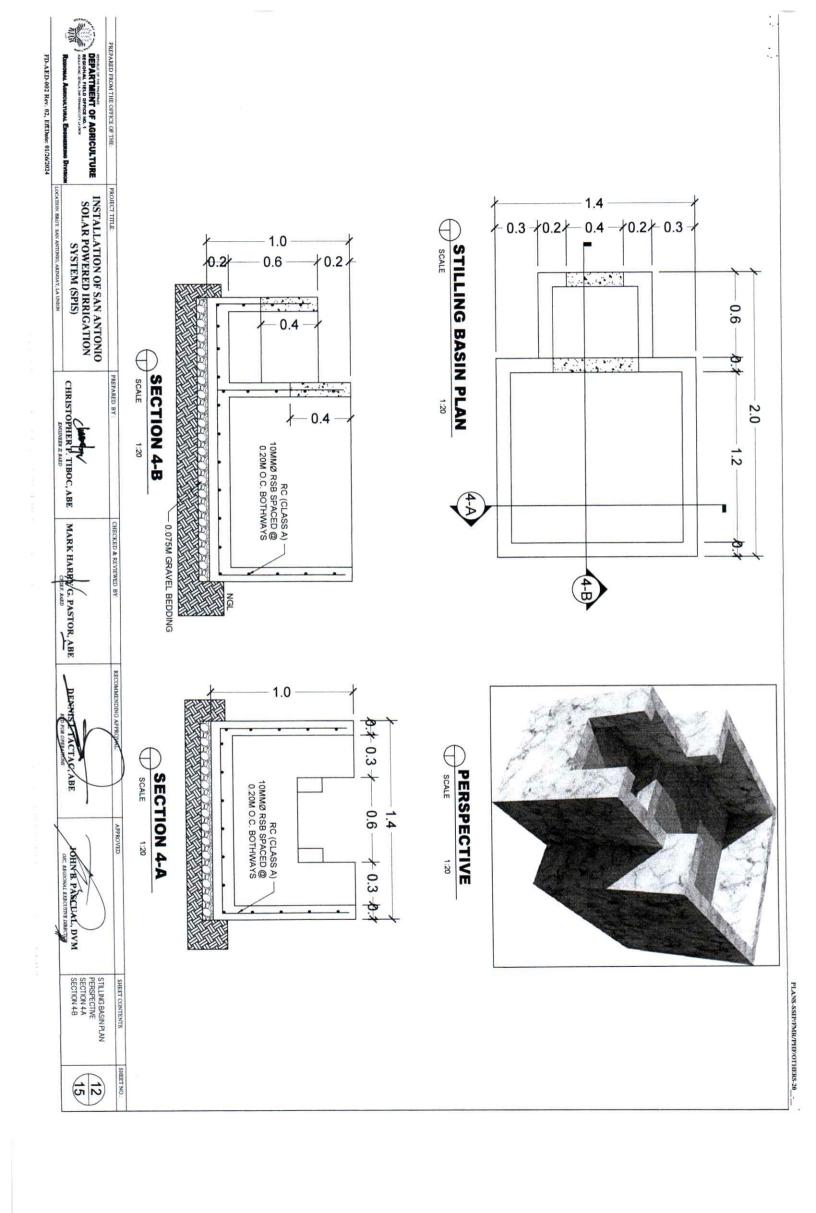






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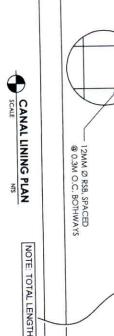
SECTION 5-A

GRAVEL BEDDING



SECTION 5-A CANAL LINING PLAN SHEET CONTENTS

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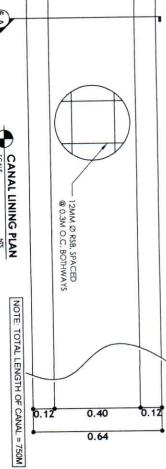


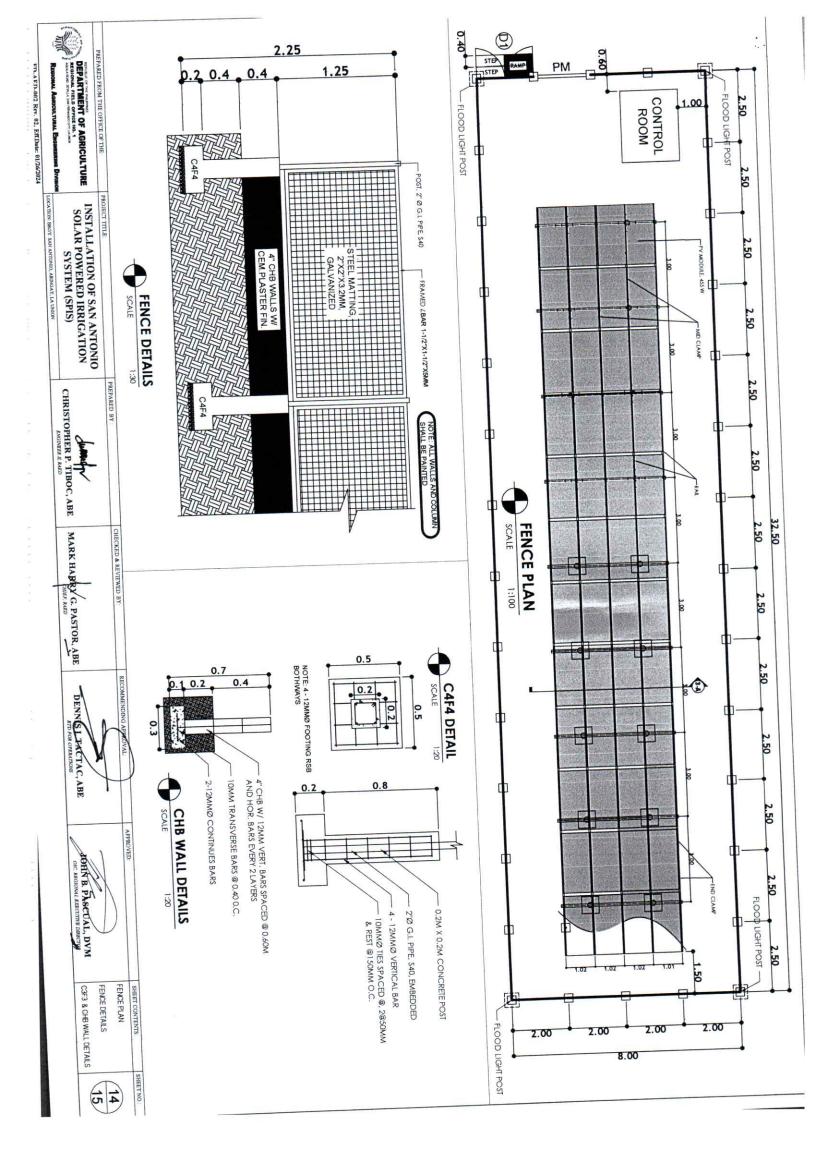
CLASS A, CONCRETE -CANAL LINING

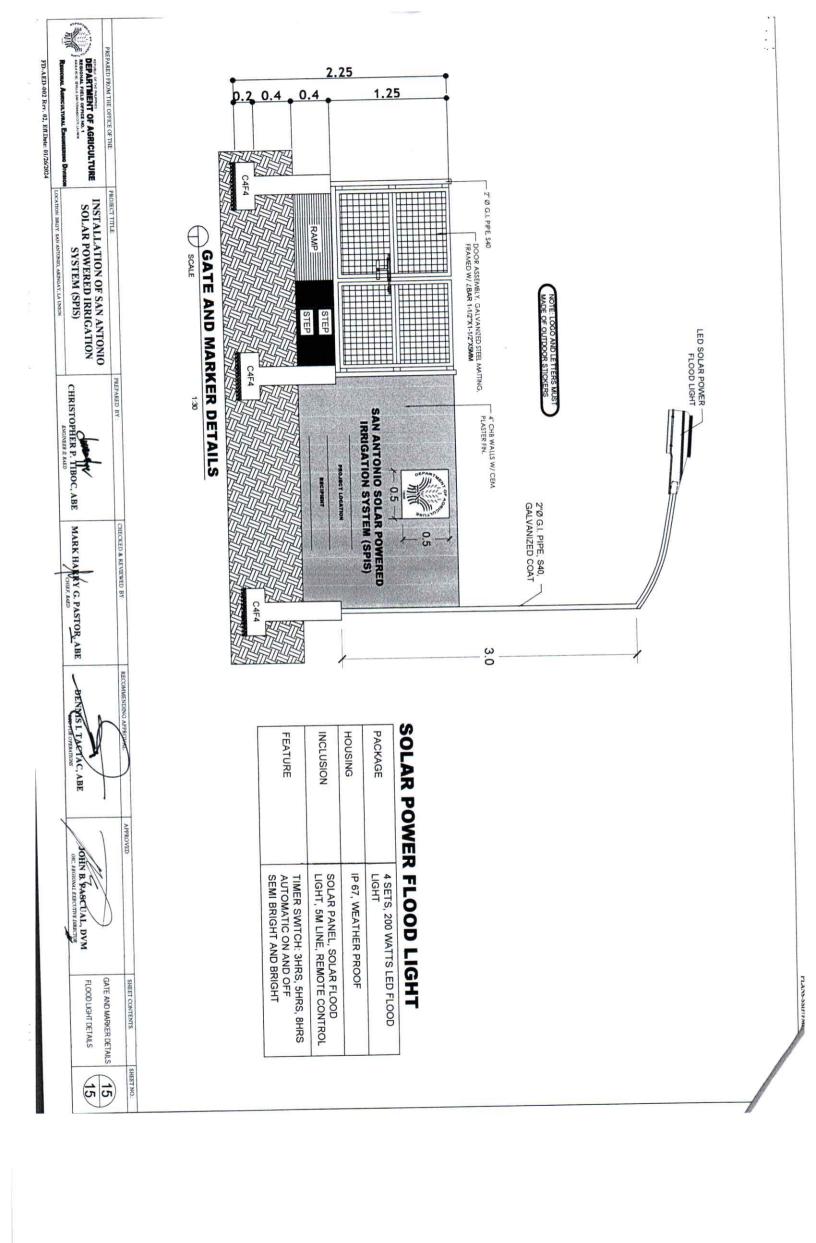
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Republic of the Philippines **DEPARTMENT OF AGRICULTURE**

Regional Field Office No. 1 Aguila Road, Sevilla, San Fernando City, La Union Tel. Nos.: 888-43-05; 888-31-79; 888-2045 888-0341; 242-10-45 to 10-46

SCOPE OF WORK AND SPECIFICATIONS

PROJECT NAME: Installation of San Antonio Solar Powered Irrigation System

(SPIS)

LOCATION: Brgy. San Antonio, Aringay, La Union

PROJECT Installation of SPIS with a pump discharge of a 1,300 cu.m/day

DESCRIPTION: at 13m static head and total pipe length of 26m.

AMOUNT: PHP. 6,435,081.48

GENERAL PROVISIONS

The contractor/implementer of the project shall verify all dimensions and conditions of the site and shall notify the DA Project Engineer for any discrepancies between actual conditions and information shown in the drawing before proceeding with the work.

The structural drawings and specifications represent the general framework of the structure. They do not indicate methods of construction, unless so stated, the contractor/implementer shall provide all necessary measures to protect the structure, the contractor/implementer's obligation to notify the DA Project Engineer of any conditions that may endanger the stability or cause distress in the structure during phases of construction.

This set of specifications shall govern the methods of construction and kinds of materials to be used for the proposed Project shown on the accompanying plans and detailed drawings.

All parts of the construction shall be finished with first class workmanship to the fullest talent and meaning of plans and the specifications, and to the satisfaction of the Department of Agriculture through its Project Engineer. Any defective material or poor workmanship should be replaced or improved by the contractor without additional cost to the owner.

All other materials specifically indicated and illustrated on plans shall be taken as part of this specification regardless whether or not written and such other materials shall be approved by the owner before they are set in place.

DESCRIPTION

I. MOBILIZATION AND DEMOBILIZATION

- The work consists of the mobilization and demobilization of the contractor's personnel, equipment and construction supplies to the site necessary for performing the work required under the contract.
- The Contractor shall mobilize and move into the Project Site (in accordance with his approved Construction Program and Equipment Moving-in and Utilization Schedule) the required construction equipment needed for the successful completion of the Contract Work immediately after receipt of the approved Construction Program.
- All roads, culverts, sidewalks, structures, etc. shall be protected from damages by the equipment.

- Access road shall be as shown on the drawings. If alternate routes are obtained by the contractor, they must be approved by the municipal engineer or the project engineer before
- Demobilization shall include dismantling and removal from the site of Contractor's Construction Plant, materials and equipment and all temporary facilities with the exception of some facilities which BSWM shall consider to remain and which shall be handled over to BSWM at the time of demobilization shall also include clean-up of the site after completion of the Contract Work as approved by BSWM and transportation from the site of Contractor's employees.

II. PROVISION OF SAFETY AND HEALTH

The Contractor shall ensure that every person working on or visiting the site, as well as the
public in general, shall be made aware of the dangers/hazards likely to arise from site
activities, including the precautionary measures to be taken to avoid or minimize those
risks associated to those dangers/hazards. The Contractor shall provide all workers a
necessary Personal Protective Equipment (PPEs).

III. CONSTRUCTION OF TEMPORARY FACILITY

- The contractor shall install/construct temporary facilities to expeditiously execute the work and shall remove them from the site when no longer required.
- The contractor shall obtain temporary and maintain in good condition a supply of potable water for construction use.
- The contractor shall install temporary electric services with sufficient capacity to supply
 proper current for various types of construction tools, motors, welding machines, pumps,
 testing, and other work required.

IV. EARTHWORKS

- The work under this Section shall include clearing removal, hauling and disposal of all
 excavated materials tamping and trimming of foundation bed required for the construction
 of permanent structure, pump sump, PV arrays foundation, perimeter fence foundation,
 control room, irrigation canals and distribution pipe trench.
- The contractor shall make all necessary excavation for foundations to grade indicated on the drawings. Work that is excavated to a greater extent than required by the drawings and specifications and which is within the bearing area of walls, footings, or floor slabs shall be filled structural specifications. The structure foundation shall be staked out accurately, after which, approval by the Architect/Engineer shall be secured before any excavation work is done. The Contractor shall secure the surrounding properties from all forms of damage and destruction caused by the excavation.
- No foundation shall rest on fill. All excavation shall be done with the proper allowances for floor slabs, forms and centers. Bottom of foundation shall be approximately level, clean and clear of loose materials and lower sections true to size. All roots, stumps, organic materials and weathered rocks shall be removed and the cavities cleaned and filled with wellcompacted sand and gravel.
- Soil bearing capacities of foundation shall be as specified by the Structural engineer. Should
 the soil at the proposed level of footing bases be found not capable of resisting said
 pressure, the Architect or the Structural engineer or Project Engineer, shall be notified and
 they shall revise foundation details as required.
- Upon completion of foundation no steel reinforcement shall be installed and concrete shall be poured until the contractor has approved the soil for each individual footing. Further supervisions for any indication of weak soil conditions before placing steel reinforcements and concrete.
- After concrete for foundations is hard enough to withstand pressure resulting from fills, the materials removed from excavations shall be used for backfill around them. Backfill and fills shall be placed in layers not exceeding 150mm in thickness, and each layer shall be thoroughly compacted by wetting, tamping and rolling.

V. RSB WORKS

- All reinforcement shall be placed in accordance with plans furnished by the Engineer. In case of any doubt or ambiguity in placing of steel, the Contractor shall consult the Engineer whose decision shall be final in such cases.
- Steel reinforcing bars to be used for this project shall consist of standard deformed structural bars meeting ASTM specifications. All reinforcement shall be placed in accordance with plans furnished by the Engineer.
- All reinforcing steel bars used shall be new and free from rust, oil, defects, grease or links.
 All loose rust or scale, adhering materials and all oil or either materials which tend to destroy bond between the concrete and the reinforcement shall be removed before placing the steel and before concreting begins.
- The steel reinforcements for concrete shall be formed accurately according to the sizes of footings, inlet works, pump house and sump, etc., where they are to be used. They shall be tied together at each bar intersection with Gauge No. 16 G.I. wire or by welding.
- All main reinforcing steel used in the structure shall conform to ASTM Grade 40 (Intermediate Grade) with yield strength of 40 ksi (276 MPa).
- All temperature bars shall conform to ASTM Grade 30 Structural Grade with minimum yield strength of 30 ksi (207 MPa).
- Always apply red oxide for the exposed RSB to eliminate rusting.
- All hooks shall be in accordance with all standard hooks and anchorages specified in ACI 318-83 Building Code.

VI. FORMS WORKS

- Provide forms that will produce correctly aligned concrete. Column forms shall be checked
 for plumpness before concrete is deposited. Hand holes shall be provided in column forms
 at lowest points of pour lifts to render this space accessible for cleaning.
- Joints in forms shall be horizontal or vertical. Lumber once used in forms shall be nailed
 withdrawn and surfaces to be in contact with concrete shall be thoroughly wetted with
 water in advance of pouring. Woods to be used shall be kiln dried and treated with antitermite chemical. And all lumber surfaces in contact with concrete and masonry shall
 receive one brush of bituminous paint.
- Immediately after the removal of the form, all projecting wires and bolts and other devices used for holding forms shall be cut off at least one-half centimeter beneath the finished surfaces. All holes and defects shall be thoroughly wetted and then painted up solid with cement putty mortar of the same proportions as the mortar used in the body of the work. All parts protruding beyond the surfacing shall be treated in such manner as to effectively remove all the lines and marks impressed by the form works.
- Forms shall be removed in a manner which will prevent damage to the concrete and shall not be removed until the concrete has attained sufficient strength to support its own weight and any loads that may be placed on it. Side forms of beams and girders may be removed earlier than the bottom forms but additional posts or shoring must be placed under the beams or girders until they have attained their strength. Forms shall not be removed until approval of the Design Engineer. Any repair of surface imperfections shall be performed at once and airing shall be started as soon as the surface is sufficiently hard to permit it without further damage.

VII. CONCRETE WORKS

- This section covers all the materials as cement, aggregates, water, admixtures and proportioning, mixing, transporting, placing, finishing, curing and protecting of concrete, including supplies, equipment, tools and all other incidentals necessary for concrete works.
- All the applicable provisions of the latest revision of the ACI Building Code (ACI- 318 -85) and American Society for Testing Materials (ASTM) shall govern in all cases not specifically provided for herein.

- All cement requirements of concrete works for the contract shall contractor-furnished. The cement shall conform to the requirements of the standard specification of Portland Cement (ASTM: C150 Type 1).
- Fine aggregates shall be clean, well-graded, hard, natural sand or manufactured sand or a combination of both. The minimum size of the aggregates shall not be larger than one-fifth (1/5) of the narrowest dimension between forms and not larger than three-fourths (3/4) of the minimum clear spacing between reinforcing bars, and in no case larger than two inches in diameter. Coarse aggregates shall be hard, durable, uncoated gravel, crushed gravel, free from any deleterious materials like alkali, loam, silt and any organic matter.
- Water used in making the concrete mass shall reasonably clean, potable, and free from injurious amount of oils, acids, alkali organic materials and other deleterious substances.
- Class A mixture shall be used for inlet works, pump house, sump, foundation and for all reinforced work not otherwise indicated or specified.

Mixing of concrete

- All concrete shall be machine-mixed for at least one and one-half minutes after all materials, including water, are in the mixing drum.
- The mixer shall be approved size and type which will ensure a uniform distribution of
 materials throughout the mass. It shall be equipped with a device for accurately measuring
 and controlling the amount of water in each batch.
- The first batch of concrete materials placed in the mixer shall contain a sufficient excess of cement, sand and water to coat inside of the drum without reducing the cement content of the mix to be discharged.

Specified Compressive Strength

Class	Psi	MPa
AA	4,000	27.57
Α	3,000	20.68
В	2,500	17.23
С	2,000	13.78

- Class AA: For septic tanks and other work as indicated.
- Class A: For slabs, beams, and wall above grade, columns and for all reinforced work not otherwise indicated or specified.
- Class B: For slabs on grade, and the beams, footings and for such concrete work as indicated or specified. (Not indicated in the plan).
- Class C: For all concrete not reinforce except as otherwise indicated or specified. (Not
 indicated in the plan).

Conveying and Placing of Concrete

- Concrete shall be conveyed from mixer to form as rapidly as practicable. There will be no vertical drop greater than 1.50 meters except where suitable equipment is provided to prevent segregation and where specifically authorized by the Architect and or the Structural Engineer.
- Concrete shall be worked readily into the corners and angles of the forms and around all
 reinforcements and embedded items without permitting materials to segregate. Concrete
 shall be deposited as close as possible to its final position so that flow within the mass does
 not exceed two meters and consequently segregation is reduced to a minimum near forms
 or embedded items, or elsewhere is directed, the discharge shall be so controlled that the

concrete may be effectively connected into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral movement specified.

Curing

Compressive strength of concrete at 28 days curing period shall attain 3000 psi (20.7 MPa) with well graded aggregates having a maximum size of 2 inches (50mm).

VIII. PV MODULE AND MOUNTING

- Photovoltaic (PV) module shall be high density monocrystalline PERC module equipped with MC4 plug for easy connection. It shall be certified according to IEC 61215 and 61730 by TÜV Rheinland/SÜV and meets the requirements for Conformité Européenne (CE) mark. Built with sturdy aluminum frames that manufactured in an ISO 9001:2000 certified factory. Maximum module efficiency shall be up to 20.0%.
- Materials of the mounting system shall be made of aluminum 6005 T5 and stainless steel 304 as specified in the detailed plans. It can resist a maximum wind speed of 220 km/hr.
- Installation/construction of the PV mounting shall be install/construct in accordance with plans furnished by the DA Project Engineer. In case of any doubt or ambiguity in the plan, the Contractor shall consult the Engineer whose decision shall be final in such cases that comply with all applicable local or national building and fire codes.

PV array shall tilt at an angle of 150 facing south direction ensuring optimum utilization of the solar energy.

IX. WATER PUMP AND CONTROLLER/INVERTER

The pump shall be submersible multi-stage centrifugal pump. The motor shall be high efficient 3-phase AC motor and no electronics in the motor. It shall be certified/approved according to IEC 61702 and 62253. All steel components are made in stainless steel, (AISI 304) that ensures high corrosive resistance. Detailed specifications were listed below:

Pump:

· Rated power: 15.0 kw

Motor speed: 750-1500 rpm

Frequency: 25-50 hz

Daily output: 1,300 m³/day

· Insulation class: F

Enclosure class: IP68

Pump outlet and inlet: 152.4 (6 inches)

Pump housing: Cast iron (conform ASTM A48-40 B)

Impeller: Cast iron (conform ASTM A48-30 B)

Inputs: With dry running protection

Controller/Inverter:

Power: max. 21.0 kw

Input voltage: max. 850V

Optimum VMP: >570 V

Motor current: max. 33A

Enclosure Class: IP54

 Enclosure class: IP 54, outdoor housing, pressure cast aluminum and powder coated cover, pressure cast aluminum case with integrated heat sink

X. IRON, TINSMITHRY AND CARPENTRY WORKS

Iron works

- The works include the furnishing, erection or installation of all structural steel and miscellaneous metal works in accordance with the specification unless required otherwise in the drawing.
 - Roof Frame
 - Trash rack
 - Fence
- All works shall well form to the shape and size shown and assembled as detailed.
- All angle bars to be used shall have minimum yield strength of 227.70 MPa.
- All metal shall be painted of primer.

Tinsmithry works

- All materials shall be installed in accordance with the plans or unless otherwise specified
 by the Engineer. Care shall be exercised in storing, handling, and to prevent any damage to
 roofing siding sheets. The sheets shall be of the length indicated of the plan, or greatest
 length suits the purlins. Extreme cares shall be exercised in drilling pilot holes for fastening
 centered in valleys or crowns as applicable. All metal shaving shall be swept from roofs in
 competition to prevent rusting and discoloration.
- The roof used is 0.5 mm thick pre-painted Rib-type GI sheet. All sheets to be supported at both ends, at the middle end laps to be properly secured.
- Ridge rolls and hip rolls to be used shall be compatible with the Rib-type roofing with a
 thickness of 0.7mm. They shall be lap the roofing sheets at least 25 cm. The ridge roll and
 hip rolls shall be riveted to the roofing sheets, in addition to the rivets engaging the GI
 straps in securing the roofing sheets to the purlins.

Carpentry works

- The work includes furnishing of the materials, equipment and labor, and performing all the
 works on carpentry and joinery. All framing members, where not indicated or specified,
 shall be provided as necessary for the proper completion of the work.
- Lumber shall be of the following species and grades unless otherwise specified in the drawing. Yakal or Guijo use in contact with the concrete, masonry and cement plaster. For jambs, transoms, mullions, headers, sills, and frames ceiling joist, wood base detachable partitions, framing and nails.
- Any lumber equally good for the purpose may be substituted for the kinds specified provided that the substituted shall be accepted to the Engineers.
- Framing lumber and other carpentry shall be fitted closely, set accurately to the lines and levels, and shall be secured in place in a rigid and substantial manner. Spikes, nails and bolts shall be of the proper size and care shall be taken so as not to split to the member. Nails spaced sufficiently apart all around the contact surface shall anchor all frames in contact with concrete and masonry.

XI. CABLE AND ELECTRICAL WORKS

- All electrical works for the solar pumping system will be done in accordance with the
 provisions of the latest Philippine National Code, rules and regulations the Electrical
 Ordinance of the Municipality and safety standards. Ensure safe installation of all electrical
 aspects of the array. All electrical installation and procedures by a licensed electrician or
 solar contractor.
- The builder shall install all materials as indicated in the drawings and the necessary panel boards or circuit breakers. Install all equipment and materials in a neat and professional manner. Leave all exposed parts of the electrical works in a neat, clean and usable condition, with painted surfaces unblemished and polished surfaces re polished. Panel boards to be used shall be flush mounted when located in areas that are visible.
- Provide an appropriate method of direct-to-earth grounding according to the latest edition of the National Electrical Code.

The above specifications are intended for the Installation of San Antonio Solar Powered Irrigation System (SPIS) located in Brgy. San Antonio, Aringay, La Union.

Prepared by:

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Checked & Reviewed by:

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OIC, EPDSS

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Chief, RAED

XII. DISTRIBUTION WORKS

- Pipe shall be homogeneous throughout; free from dents, cracks, inclusions and other defects. Pipe surfaces shall be free from nicks, scratches and other blemishes. The joints surfaces of pipe spigots and integral-bell and sleeve reinforced-bell sockets shall be free from gauges and other imperfections that may cause leakage at joints.
- Pressure pipe and fittings shall be made from rigid polyvinyl chloride (PVC) compound schedule 40 that manufactured and installed in accordance with international standard (ANSI B1.20.1, ASTM D1784, ASTM D1785, ASTM D2466, ASTM D2672, ASTM F1498, NSF/ANSI 14, NSF/ANSI 61).
- PVC Pipe shall be installed either by Open Trench Construction or Directional Bore Method.
- Galvanized iron (G.I.) pipe shall meet the requirements specified in one of the following specification: ASTM A 53, AASHTO M 36 or M 218.
- High Density Polyethylene (HDPE) pipe and fittings shall be made from base polymer that manufactured in accordance with international standard. All HDPE pipe must be from class PE 100/SDR 17.
- Installation of the distribution line shall be installed at the locations shown on the plans and to the position and spacing.
- All pipe and fittings damaged or rejected because of defects shall be removed from the site at the time inspected.

XIII. MASONRY WORKS, PAINTING & WATER PROOFING WORKS

Masonry Works

The cells of the concrete hollow blocks to be laid shall be filled with 1:3 cement mortars (1 part Portland cement and three parts sand, by volume). They shall be reinforced with 10mm diameter horizontal deformed bars every three blocks and 10mm diameter vertical bars deformed bars at 800mm 0.C. Unless specified on the elevation drawing, the cement plaster mixture for masonry walls shall be 1:3 (1 part cement, and 3 parts sand, by volume).

Minimum Compressive Strength of Concrete Hollow Blocks is as follows:

Class A 900 psi Class B 750 psi

- Held in place by horizontal and vertical reinforcing and interior surfaces of hollow blocks shall be thoroughly soaked with water before laying. Hold all units in storage for a period not less than 28 days (including curing period) and do not deliver prior to that time unless strength and other tests indicate compliance with these specifications.
- Mortar aggregates shall be natural river sand, clean and free from soluble slats and organic
 matter, graded from fine to coarse, compatible with the thickness of joints in which used.
 Mix mortar from three to five minutes in such quantities as are needed for immediate use.
 No re tempering will be permitted if mortar stiffens because of premature setting. Discard
 such materials as well as those which have not been used within one hour after mixing.
- Lay units in common bond with uniform causing and jointing. All concrete block jointing shall be of uniform thickness. Butler vertical and horizontal jointing full with mortar. Bond course and corners and intersections and tie to abutting walls. Do not lay cracked, broken or deface blocks. Cut edges shall be clean and sharp. The first row of block shall be properly and thoroughly anchored to the concrete columns, walls of slabs. Course shall be laid straight and well plumbed.

Plastering

• The Plastering of CHB wall should be 20mm thick using Portland Cement and sand. The mixture ratio should be (1:2).

Painting Works

- All painting works for this project, except as hereinafter specified, shall be done with the
 use of paint products.
- The contractor shall supply all labor, paint materials, tools, staging and equipment necessary, and shall perform all painting and finishing work as shown in the schedule of painting and finishing work for this project. The painting contractor shall store his materials in one place in the building to be kept near and clean, care being taken in the storage of paints, oils, etc. to prevent danger of fire. Oil rags shall be kept in metal containers and shall be removed from the building every end of the working day. All paintings are to be done in good workmanship manner. No painting shall be done on all surfaces before neutralizing and proper sand papering is through. No painting on damp weather is to be done.
- All concrete surfaces to be painted shall first be coated with concrete neutralizer. Exterior
 walls shall be finished with Solvent-Based Acrylic Paint, first coated with Penetrating
 sealer. Interior wall shall be finished with Latex Paint, first Painted with concrete sealer.
 Steel or iron surfaces must first be painted with anti-rust proofing. All color schemes for
 painting the building shall be decided by the Architect and end user, to be implemented
 upon completion of the construction. The Contractor shall submit color samples and
 finishes for approval by the Architect and End user before final application.
- Cracks and holes shall be filled with putty compatible with the surface to be painted and
 the paint materials to be applied. All wooden door jambs and cabinet frames and shelves
 to come in contact with masonry surfaces must be painted with SOLIGNUM wood
 preservative.
- Upon completion of the painting works, the painting Contractor shall remove any paint spots from all finished work. He shall present his work to the in charge of the Construction, free from blemishes and rubbish generated by his workers.
- Before any painting is done, all surfaces shall be cleaned, smoothed and freed from dust, dirt, grease, mortar, rust and other foreign substances. All parts where paint remover has been used shall be washed off with paint or lacquer thinner. All paints shall be spread evenly and carefully.
- All paint and paint materials shall be delivered to the building site in unbroken packages, bearing the marks of the specified brand. No adulteration of specified paints with other brands shall be allowed without the consent of the Architect and End user.
- All other materials specifically indicated and illustrated on plans shall be taken as part of
 this specification regardless whether or not written and such other materials shall be
 approved by the end user before they are set in place.

Water Proofing Works

- Cement-base waterproofing powder mix shall be cement-base, aggregate type, heavy duty, water-proof coating for reinforced concrete surface and masonry exposed to water. The aggregates are graded and sized so as to mesh perfectly and are selected for purity, hardness, strength and are non-metallic. When mixed with other ingredients, the mix shall be a free flowing, water-proof coatings that possesses strength durability and density.
- Additive binders shall be of special formulation of acrylic polymers and modifiers in liquid form used as additive with cement-base powder mix that improves adhesion and mechanical properties.
- Water shall be clean, clear and potable.
- One (1) brand or type of waterproofing material shall be used on the project.

 Waterproofing materials shall be stored in a weather-tight enclosure to avoid moisture damage and absorption.

XIV. DEWATERING

- The work of this section consists of controlling groundwater, site drainage, and storm flows during construction.
- Onsite materials may be used within the limits of construction to construct temporary dams and berms. Materials such as plastic sheeting, sand bags, and storm sewer pipe may also be used if desired by contractor.
- For all excavation, contractor shall provide suitable equipment and labor to remove water, and keep the excavation dewatered so that construction can be carried on under dewatered conditions.
- Contractor is responsible for investigating and becoming familiar with all site conditions
 that may affect the work including surface water, potential flooding conditions, level of
 groundwater and the time of year the work is to be done.
- Contractor shall remove all temporary water control facilities when they are no longer needed or at the completion of the project.

XV. DOORS AND WINDOWS

- This item shall consist of all fabrication and installation of windows and doors complete
 with the hardware necessary for the proper functioning thereafter as called for this
 specification unless indicated otherwise in the drawings.
- · All metal sidings and walling shall be painted of primer.

XVI. STONE MASONRY WORKS

- The work under this Section shall include construction of all necessary from work, placing rubble stone and concrete binder on an approved foundation and form work; the removal of forms and curing of the rubble masonry, all in accordance with the drawings and specifications or as directed by the DA/BSWM Project Engineer.
- Rubble stones shall consist of field stones. They are clean, sound, durable, resistant to the action of water, and must have specific gravity of at least two and six tenths (2.6), in diameters ranging from 15 cm. to 30 cm., sixty percent (60%) of which comprises the bigger sizes. Stones shall have the prior approval of the DA/BSWM Project Engineer before their use. Concrete binder shall be class A concrete with 1 ½ (37.5 mm) maximum size of aggregate.
- The stone shall be thoroughly wet before they are installed in place. The entire surface of every stone shall be thoroughly covered with concrete binder, as specified in the drawing. Actual variation in this proportion will not entitle the Contractor to any price adjustment. The stones shall be well set such that no stone will project beyond the lines indicated on the drawings. The concrete binder shall be properly placed into the spaces between stones so that no void is left within the rubble masonry. Concrete layer of 10 cm. or as shown in the drawing shall be placed as outer layer of cover of the rubble masonry as finishing to coincide with neat lines of the structure. In case reinforcements are placed, no stone shall be closer than 3 inches (7.5 cm) to the nearest reinforcing bars. Rubble masonry shall be cured by water for five (5) days.

XVII. AUXILIARY WORKS

- Auxiliary works includes the installation of solar flood light.
- The builder/installer shall install all materials as indicated in the drawings and the necessary circuit protection. Install all materials in a neat and professional manner. In case of any doubt or ambiguity of the specifications, the Contractor shall consult the Engineer whose decision shall be final in such cases.

Technical Specifications

Instructions:

<u>Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment/goods offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence.</u> Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate.

The Technical Specification must be supported with the following:

- Colored, clear and readable original copies of brochures (in English language) of the offered goods (pump, inverter/controller and solar module/panel).
- **Other technical specification requirements:**
 - With minimum warranty of 1 year on pump and controller/inverter, accessories, and services
 - With minimum warranty of 15 years on PV Module

A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.

Item	Specification	Statement of Compliance
VIII	PV MODULE AND MOUNTING	
	 Photovoltaic (PV) module shall be high density monocrystalline PERC module equipped with MC4 plug for easy connection. It shall be certified according to IEC 61215 and 61730 by TÜV Rheinland/SÜV and meets the requirements for Conformité Européenne (CE) mark. Built with sturdy aluminum frames that manufactured in an ISO 9001:2000 certified factory. Maximum module efficiency shall be up to 20.0%. Materials of the mounting system shall be made of aluminum 6005 – T5 and stainless steel 304 as specified in the detailed plans. It can resist a maximum wind 	
	 speed of 220 km/hr. Installation/construction of the PV mounting shall be install/construct in accordance with plans furnished by the DA Project Engineer. In case of any doubt or ambiguity in the plan, the Contractor shall consult the Engineer whose decision shall be final in such cases that comply with all applicable local or national building and fire codes. PV array shall tilt at an angle of 150 facing south direction ensuring optimum utilization of the solar 	
	energy.	
IX	WATER PUMP	
	The pump shall be submersible multi-stage centrifugal pump. The motor shall be high efficient 3-phase AC motor and no electronics in the motor. It shall be certified/approved according to IEC 61702 and 62253. All steel components are made in stainless steel, (AISI 304)	

that ensures high corrosive resistance.	
Detailed specifications were listed below:	
Pump:	
• Rated power: 15.0 kw	
 Motor speed: 750-1500 rpm 	
• Frequency: 25-50 hz	
• Daily output: 1,300 m ³ /day	
• Insulation class: F	
• Enclosure class: IP68	
• Pump outlet and inlet: 152.4 (6 inches)	
 Pump housing: Cast iron (conform ASTM A48-40 B) 	
• Impeller: Cast iron (conform ASTM A48-30 B)	
 Inputs: With dry running protection 	
C + N //	
Controller/Inverter:	
• Power: max. 21.0 kw	
• Input voltage: max. 850V	
• Optimum VMP: >570 V	
 Motor current: max. 33A 	
• Enclosure Class: IP54	
• Enclosure class: IP 54, outdoor housing, pressure	
cast aluminum and powder coated cover, pressure	
cast aluminum case with integrated heat sink	

DEPARTMENT OF AGRICULTURE-REGIONAL FIELD OFFICE 1

NAME OF PROCURING ENTITY

PROJECT REFERENCE	NO.:	 	
NAME OF PROJECT:			

STATEMENT OF ALL ON-GOING GOVERNMENT AND PRIVATE CONTRACTS, INCLUDING CONTRACTS AWARDED BUT NOT YET STARTED, IF ANY, WHETHER SIMILAR OR NOT SIMILAR IN NATURE AND COMPLEXITY TO THE CONTRACT TO BE BID

CONTRACT TO BE BID: BUSINESS NAME: BUSINESS ADDRESS:								
Name of Contract/ Location Project Cost	a. Owner's Name b. Address	NATURE OF	CONTRACTOR'S	ROLE	a. Date Awarded b. Date Started	% Accompl		Value of Outstanding Works
	c. Telephone Nos.	WORK	Description	%	c. Date Completion	Planned	Actual	VVOTRS
_								

Note: This statement shall be supported with:

- 1. Notice of Award and/or Contract
- 2. Notice to Proceed issued by the Owner

Submitted by:
Name of Representative of Bidder
Position
Date

DEPARTMENT OF AGRICULTURE-REGIONAL FIELD OFFICE 1

NAME OF PROCURING ENTITY

Project Reference No.: _	
Name of the Project:	
ocation of the Project:	

Statement identifying the Bidder's Single Largest Completed Contract (SLCC) similar in nature

Contract to be Bid: Business Name: Business Address:						
Name of Client	a. Owner's Name b. Address	Title of the Project	Nature of	a. Date Awarded b. Contract Effectivity	Contractor's Role (whether sole contractor, subcontractor, or partner	a. Total Contract Value at Award b. Total Contract Value at

Name of Client	a. Owner's Nameb. Addressc. Telephone Nos.	Title of the Project in the Contract	Nature of Work	a. Date Awarded b. Contract Effectivity c. Date Completed	(whether sole co subcontractor, c in a JV)		Award b. Total Contract Value at Completion
					Description	%	c. Contract Duration
<u>Government</u>							
							_
							_
<u>Private</u>							

Note: This statement shall be supported with:

- 1. Notice of Award
- 2. Notice to Proceed
- 3. Contract
- 4. Owner's Certificate of Acceptance OR Constructors Performance Evaluation Summary (CPES) Rating

Submitted by	:_	
		(Printed Name and Signature)
Designation	:_	
Date	:_	

Bid Securing Declaration Form

[shall be submitted with the Bid if bidder opts to provide this form of bid security]

REPUBLIC OF THE PHILIPPINES)	
CITY OF	_) S.S.

BID SECURING DECLARATION Project Identification No.: [Insert number]

To: **DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE 1 City of San Fernando, La Union**

I/We, 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 procurement 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 RA No. 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; and
 - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of [month] [year] at [place of execution].

[Insert NAME OF BIDDER OR ITSAUTHORIZED REPRESENTATIVE [Insert signatory's legal capacity]

Affiant

[Jurat]

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

DEPARTMENT OF AGRICULTURE-REGIONAL FIELD OFFICE 1

Standard Form Number: SF-INFR-48 Revised on: August 11, 2004

Contract Reference No.:	
Name of the Contract:	
ocation of the Contract:	

		(LIST) Qualification	on of Key Personnel Prop	oosed to be Assign	ed to the Contract	
	iness Name:iness Address:					
		Project Manager/Engineer	Materials Engineer	Foreman	Construction Safety and Health Personnel	Other positions deemed required by the Applicant for the project
1	Name					
2	Address					
3	Date of Birth					
4	Employed since					
5	Experience					
6	Previous Employment					
7	Education					
8	PRC Licence					
Min	imum Requirements	: Project Manager/Engir: Materials Engineer: Foreman: Foreman	neer			
Not	e	: Attached individual re	sume and PRC License of	f the (professional)	personnel	
Sub	mitted by :		_			
	(Printed Na	ame and Signature)				
Des	ignation :		-			
Dat	e :					

One of the requirements from the bidder to be included in its Technical Envelope is a list of contractor's key personnel (viz, Project Manager, Project Engineers, Materials Engineers and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data (including the key personnel signed written commitment to work for the project once awarded the contract).

DEPARTMENT OF AGRICULTURE-REGIONAL FIELD OFFICE 1

NAME OF PROCURING ENTITY

Contract Reference Number Name of the Contract Location of the Contract

1.	Name	:			
2.	Name and Address of Owner	:			
3.	Name and Address of the Owner's Engineer (Consultant)	:			
3-4	Indicate the Features of Project (particulars of the project Components and any other particular Interest connected with the project):				
5.	Contract Amount Expressed in Philippine currency	:			
6.	Position	:			
7.	Structures for which the employee was responsible :				
8.	Assignment Period	:	from to		(months) (months)
	and Signature of Employee reby certified that the above personnel	can be	assigned	to this project, if	the contract is awarded to our
	(Place and Date)			(The Authorized	Representative)
person contra	the requirements from the bidder to nel (viz, Project Manager, Project Engi ct to be bid, with their complete quali n commitment to work for the project on	neers, I fication	Materials and exp	Engineers and Fo erience data (inclo	oremen), to be assigned to the

DEPARTMENT OF AGRICULTURE-REGIONAL FIELD OFFICE 1 *NAME OF PROCURING ENTITY*

Authorized Managing Officer/Representative

Contract Reference Number Name of the Contract Location of the Contract

Standard Form Number: SF-INFR-47 Revised on: August 11, 2004

KEY PERSONNEL (FORMAT OF BIO-DATA

Give the detailed information of the following personnel who are to be assigned as full-time field staff for the project. Fill up a form for each person.

-	Sustained Technical Employee						
1.	Name	:					
2.	Date of Birth	:					
3.	Nationality	:					
4.	Education and Degrees	:					
5.	Specialty	:					
6.	Registration	:					
7.	Length of service with the Firm	:					
8.	Years of Experience	:					
9.	If item 7 is less than ten (10) years a ten (10)-year period (attach addi			-	vice with p	revious	employers for
	Name and Address of employer			Length of Se	<u>ervice</u>		
				yea	r(s) from		to
							to
				yea	r(s) from		to
10.	Experience:						
	This should cover the past ten (10 show involvement of personnel in		•	-	•	pages a	as necessary to
con For dat	e of the requirements from the l etractor's key personnel (viz, Pro emen), to be assigned to the contro a (including the key personnel sign contract). SF-INFR-47a	ject Man act to be	ager, I bid, wit	Project Engii h their comp	neers, Mat Ilete qualific	erials l	Engineers and and and experience

DEPARTMENT OF AGRICULTURE-REGIONAL FIELD OFFICE 1 NAME OF PROCURING ENTITY

Contract Reference Number Name of the Contract Location of the Contract

Standard Form Number: SF-INFR-46 Revised on: August 11, 2004

Key Personnel's Certificate of Employment

Issuance Date

DIR. N	<u>ESTOR</u>			
	on of the Head of the Procur			
	RTMENT OF AGRICULTURE R		<u>1</u>	
CIIYC	<u> PF SAN FERNANDO, LA UNIO</u>	<u>'NO</u>		
Dear S	sir/Madame:			
No	I am <u>(Name of Nominee</u> issued on <u>(l</u>			
(name	I hereby certify that <u>(/</u> of the Contract), if awarde		ngaged my services	as <u>(designation)</u> for
under	As <u>(designation)</u> , I sup bidding:	ervised the following	completed projects	similar to the contract
	NAME OF PROJECT	OWNER	COST	DATE COMPLETED
	At present, I am supervisi	ng the following projec	ts:	
	NAME OF PROJECT	OWNER	COST	DATE COMPLETED
	In case of my separation			
	notify the <u>(Name of the F</u> of my separation.	<u>Procuring Entity)</u> at lea	st twenty one (21) d	ays before the effective
	As <u>(Designation)</u> , I kge the Contract works to th contract at a time.		_	•

I do not allow the use of my name for the purpose of enabling the above-mentioned Contractor to qualify for the Contract without any firm commitment on my part to assume the post of (Designation) thereof, if the contract is awarded to him since I understand that to do so will be

a sufficient ground for my disqualification as (Designation) <u>Procuring Entity)</u> bidding or employment with anyContraction the Procuring Entity) .	
	(Signature of Engineer)
DRY SEAL	
Republic of the Philippines)) S.S.	
SUBSCRIBED AND SWORN TO before me thisexhibiting to me his/her Residence Certificate Noat	
	Notary Public Until December 31, 20
Doc. No Page No Book No Series of	
One of the requirements from the bidder to be included in contractor's key personnel (viz, Project Manager, Project Foremen), to be assigned to the contract to be bid, with their	Engineers, Materials Engineers and

data (including the key personnel signed written commitment to work for the project once awarded

the contract). SF-INFR-46a

Standard Form Number: SF-INFR-49

Revised on August 11, 2004

LIST OF EQUIPMENT, OWNED OF LEASED and/or under PURCHASE AGREEMENT, PLEADGED TO THE PROPOSED PROJECT

Business Name Business Address	:					- -	
Description	Model/Year	Capacity/ Performance/ Size	Plate No.	Motor No./ Body No.	Location	Condition	Proof of Ownership/ Lessor or Vendor
List of minimum e	quipment required	I for the project					
Submitted by :							
	(Print name and a						

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

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

TechnicalWorking 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 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;

- 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]

COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

Summary of the Applicant Supplier's/Distributor's assets and liabilities on the basis of the attached Income Tax Return and Audited Financial Statement, stamped "RECEIVED" by the Bureau of Internal Revenue or BIR authorized collecting agent for the immediately preceding year.

		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)	

The Net Financial Contracting Capacity (NFCC), which must be at least equal to the ABC to be bid, based on the above data is calculated as follows:

NFCC = [(Current asset minus current liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started

Or,

If the prospective bidder	opts to submit a	Committed Li	ine of Credit	(CLC), it must be
at least equal to ten per	cent (10%) of th	e ABC to be b	oid and shall	be confirmed or
authenticated by a local u	niversal or comm	ercial bank.		

Name of Bank	Amount	

Herewith attached are certified true copies of the Income Tax Return and Audited Financial Statement Stamped "RECEIVED" by the BIR authorized collecting agent for the immediately preceding year.

Submitted by:

Name of Supplier/Distributor/Manufacturer

Printed Name and Signature of Authorized Representative Date:

Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM	
Date:	
Project Identification No.:	

To: DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE 1

City of San Fernando, La Union

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: *[insert name of contract]*;
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: [insert information];
- d. The discounts offered and the methodology for their application are: [insert information];
- e. The total bid price includes the cost of all taxes, such as, but not limited to: [specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties], which are itemized herein and reflected in the detailed estimates.
- f. Our Bid shall be valid within the period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines12 for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

- k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and 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 the [Name of Project] of the [Name of the Procuring Entity].
- I. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

lame:	_
egal capacity:	
Signature:	_
Ouly authorized to sign the Bid for and behalf of:	_
Date:	