

# **PHILIPPINE BIDDING DOCUMENTS**

# **Procurement of INFRASTRUCTURE PROJECTS**

Government of the Republic of the Philippines

**REBIDDING OF PROVISION OF LABOR,  
MATERIALS, EQUIPMENT AND OTHER  
INCIDENTALS NEEDED FOR THE  
INSTALLATION OF ALCALA SOLAR-  
POWERED FERTIGATION SYSTEM (SPFS-8) IN  
BRGY. ALCALA, LUNA, LA UNION**

**IB No.: DA-RFO 1-2022-INFRA-052-R**

**Sixth Edition  
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## TABLE OF CONTENTS

<b>Glossary of Terms, Abbreviations, and Acronyms .....</b>	<b>4</b>
<b>Section I. Invitation to Bid.....</b>	<b>7</b>
<b>Section II. Instructions to Bidders .....</b>	<b>8</b>
1. Scope of Bid .....	14
2. Funding Information .....	14
3. Bidding Requirements.....	14
4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices .....	14
5. Eligible Bidders .....	15
6. Origin of Associated Goods .....	15
7. Subcontracts .....	15
8. Pre-Bid Conference.....	15
9. Clarification and Amendment of Bidding Documents .....	15
10. Documents Comprising the Bid: Eligibility and Technical Components .....	16
11. Documents Comprising the Bid: Financial Component .....	16
12. Alternative Bids .....	17
13. Bid Prices .....	17
14. Bid and Payment Currencies .....	17
15. Bid Security .....	17
16. Sealing and Marking of Bids .....	17
17. Deadline for Submission of Bids .....	18
18. Opening and Preliminary Examination of Bids.....	18
19. Detailed Evaluation and Comparison of Bids .....	18
20. Post Qualification .....	18
21. Signing of the Contract .....	19
<b>Section III. Bid Data Sheet .....</b>	<b>20</b>
<b>Section IV. General Conditions of Contract.....</b>	<b>22</b>
1. Scope of Contract.....	23
2. Sectional Completion of Works .....	23
3. Possession of Site.....	23
4. The Contractor's Obligations .....	23
5. Performance Security .....	24
6. Site Investigation Reports .....	24

7.	Warranty.....	24
8.	Liability of the Contractor.....	24
9.	Termination for Other Causes .....	24
10.	Dayworks.....	25
11.	Program of Work .....	25
12.	Instructions, Inspections and Audits .....	25
13.	Advance Payment .....	25
14.	Progress Payments .....	25
15.	Operating and Maintenance Manuals .....	26
<b>Section V. Special Conditions of Contract.....</b>		<b>27</b>
<b>Section VI. Specifications .....</b>		<b>29</b>
<b>Section VII. Drawings.....</b>		<b>30</b>
<b>Section VIII. Bill of Quantities .....</b>		<b>31</b>
<b>Section IX. Checklist of Technical and Financial Documents .....</b>		<b>32</b>

# ***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.

**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, San Fernando City, La Union  
 Telephone Nos. (072) 242 1045/1046



**INVITATION TO BID FOR THE REBIDDING OF PROVISION OF LABOR, MATERIALS, EQUIPMENT AND OTHER INCIDENTALS NEEDED FOR THE INSTALLATION OF ALCALA SOLAR-POWERED FERTIGATION SYSTEM (SPFS-8) IN BRGY. ALCALA, LUNA, LA UNION**

1. The Department of Agriculture Regional Field Office 1 (DA-RFO 1), through the GAA FY 2022 Fund, intends to apply the sum of **One Million Two Hundred Ten Thousand Pesos (PhP1,210,000.00)** being the Approved Budget for the Contract (ABC) to payment under the contract for the **REBIDDING OF PROVISION OF LABOR, MATERIALS, EQUIPMENT AND OTHER INCIDENTALS NEEDED FOR THE INSTALLATION OF ALCALA SOLAR-POWERED FERTIGATION SYSTEM (SPFS-8) IN BRGY. ALCALA, LUNA, LA UNION** with (IB No. DA-RFO 1-2022-INFRA-052-R). Bids received in excess of the ABC shall be automatically rejected at the bid opening.
2. The DA-RFO 1 now invites bids for the above procurement project with the following details and specifications:

DETAILS AND SPECIFICATIONS		
<b>Project Location:</b> Brgy. Alcala, Luna, La Union		
<b>Project Description:</b> Installation of SPFS-8 with a pump discharge of at least 50 cu.m./hr and minimum daily output of 420 cu.m./day at 10m static head		
<b>Scope of work to be done:</b>		
Description	Qty	Unit
I. MOBILIZATION AND DEMOBILIZATION	1.00	l.s.
II. CONSTRUCTION OF TEMPORARY FACILITY	1.00	l.s.
III. CLEARING AND GRUBBING	75.00	sq.m.
IV. EARTHWORKS	37.91	cu.m
V. RSB WORKS	292.36	kgs
VI. FORM WORKS	120.00	bd.ft
VII. CONCRETE WORKS	4.00	cu.m
VIII. PV MODULE AND MOUNTING <ul style="list-style-type: none"> <li>- monocrystalline, half cut (144 cells) connected with 3-bypass diode</li> <li>- IP68, MC4 plug for easy connection</li> <li>- Efficiency: 20.5% (maximum)</li> <li>- framed with rigid anchored corners anodized aluminum</li> </ul>	7,280.00	watts
IX. WATER PUMP <ul style="list-style-type: none"> <li><b>Submersible multi-stage centrifugal water pump: maintenance-free brushless AC/DC motor</b></li> <li>- Rated power: 4kw</li> <li>- Efficiency: 92% max.</li> <li>- Motor speed: 900-3200 rpm</li> </ul>	1.00	unit



<ul style="list-style-type: none"> <li>- Min. Rated flow: 50m<sup>3</sup>/hr @ 10m static head and 15m pipe length</li> <li>- Min, Daily output: 420m<sup>3</sup>/day</li> <li>- Pump outlet: 100mm non-return valve</li> <li>- Insulation class: F</li> <li>- Enclosure Class: IP68</li> <li>- Inputs: Dry running protection</li> <li>- Certified according to IEC 61702 and Conformité Européenne (CE) mark</li> </ul>			
<p>X. PUMP CONTROLLER/INVERTER</p> <p>Controller: off-grid solar inverter compatible with solar pumps; with MPPT</p> <ul style="list-style-type: none"> <li>- Power rating: max. 4 kw</li> <li>- Input voltage: max. 375V</li> <li>- Optimum VMP: &gt;240V</li> <li>- Motor current: max. 14A</li> <li>- Efficiency: 97% (max)</li> <li>- Enclosure class: IP68 (NEMA 6P)</li> <li>- with protection against reverse polarity, overloading and overheating full automatic operation</li> </ul>	1.00	unit	
<p>XI. FERTIGATOR WITH TANK</p> <ul style="list-style-type: none"> <li>- Flow range: 2-40GPM</li> <li>- Injection ratio: 1:500 - 1:50</li> <li>- Pressure range: 2.2 - 116 psi</li> <li>- Connection: 1-1/2" NPT</li> <li>- Housing material: Polypropylene</li> <li>- Tank: 1000L HDPE IBC Tank with steel cage poly tote</li> </ul>	1.00	lot	
XII. CABLE AND ELECTRICAL WORKS	1.00	lot	
XIII. DISTRIBUTION WORKS	250.00	m	
XIV. MARKER	1.00	unit	
XV. AUXILIARY WORKS ( 2 sets solar flood light)	1.00	lot	
<p><b>Other Requirements:</b></p> <p>An AMTEC Test Report is required for this project. If in case the AMTEC is not available during the bid opening a preliminary test report or proof of application may be accepted, however the AMTEC Test requirement must be submitted before the installation of the pump subject to the evaluation of the RAED. Installation of the pump shall proceed if it passed the evaluation conducted. System testing shall be conducted by AMTEC upon completion of the installation of the whole system and must be compliant to the technical specifications required by the office. Consequently, the RAED shall conduct Acceptance testing prior to payment. Both the AMTEC System Test Report and Pump's AMTEC test report shall be requirements to effect final payment.</p> <p>Further, should the AMTEC test report indicates that the agricultural and fisheries machinery offered by the supplier/ winning bidder fails to meet the prescribed specifications and performance standards set by this office, the procuring entity shall not accept the goods and proceed with the termination of contract on the</p>			

ground that the supplier/ winning bidder, who is in default, fails to perform any other obligation under the Contract.

**MINIMUM TECHNICAL PERSONNEL REQUIRED:**

- 1 Project Engineer
- 1 Foreman
- 2 Skilled Workers
- 5 Unskilled Workers

**MINIMUM EQUIPMENT REQUIRED:**

- 1 HDPE Butt Fusion Machine
- 1 Generator set
- 1 PVC Cutter
- Minor Tools

Completion of the Works is **forty-five (45) working days** upon receipt of the Notice to Proceed. 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 **September 12, 2022 to October 4, 2022** from 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 **PhP5,000.00**. 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 **20 September 2022, 3:00 PM** at DA-RFO 1 5<sup>th</sup> Floor Conference Room, Aguila Road, Sevilla, City of San Fernando, La Union and/or through video conferencing/webcasting via Google Meet and Cisco Webex, which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat through manual submission and receipt at the office address indicated above on or before **4 October 2022, 3:00 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 16.
9. **Bid opening** shall be on **4 October 2022, 3:00 PM** at DA-RFO 1 5<sup>th</sup> Floor Conference Room, Aguila Road, Sevilla, City of San Fernando, La Union and/or through video conferencing/webcasting. Bids will be opened in the presence of the bidders' representatives who choose to attend the bid opening.
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 indicating the name/title of the project, as the case may be, together with the Company-issued Identification Card or any valid ID must be presented upon submission of the bid proposal at the BAC Secretariat
  - 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 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 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 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.

Both the Technical and Financial Requirement envelopes shall be enclosed in another/separate 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. 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;

- e. 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
- f. The bidder shall submit Certificate of Site Inspection signed by the Project Recipient/s or LGU (MAO or Brgy. Captain or Brgy. Officials), as part of the project requirements (Tab f), during the bid opening;
- g. An AMTEC Test Report is required for this project. If in case the AMTEC is not available during the bid opening a preliminary test report or proof of application may be accepted, however the AMTEC Test requirement must be submitted before the installation of the pump subject to the evaluation of the RAED. Installation of the pump shall proceed if it passed the evaluation conducted. System testing shall be conducted by AMTEC upon completion of the installation of the whole system and must be compliant to the technical specifications required by the office. Consequently, the RAED shall conduct Acceptance testing prior to payment. Both the AMTEC System Test Report and Pump's AMTEC test report shall be requirements to effect final payment.

Further, should the AMTEC test report indicates that the agricultural and fisheries machinery offered by the supplier/ winning bidder fails to meet the prescribed specifications and performance standards set by this office, the procuring entity shall not accept the goods and proceed with the termination of contract on the ground that the supplier/ winning bidder, who is in default, fails to perform any other obligation under the Contract.

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:

**JACINTA MARISSA D. OLALAN, Ph.D.**  
*Chairperson, Bids and Awards Committee 1*  
**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: [darfo1.bacsec1@gmail.com](mailto:darfo1.bacsec1@gmail.com)

For downloading of Bidding Documents, you may visit the following websites:  
 DA-RFO1 Website: <https://ilocos.da.gov.ph/>  
 PhilGEPS Website: <https://www.philgeps.gov.ph/>

September 9, 2022

**Approved by:**

**JACINTA MARISSA D. OLALAN, Ph.D.**  
*Chairperson, Bids and Awards Committee 1*

**Invitation to Bid Identification No. DA-RFO 1-2022-INFRA-052-R**

## ***Section II. Instructions to Bidders***

### **1. Scope of Bid**

The Procuring Entity, **Department of Agriculture - Regional Field Office 1 (DA-RFO 1)** invites Bids for the **REBIDDING OF PROVISION OF LABOR, MATERIALS, EQUIPMENT AND OTHER INCIDENTALS NEEDED FOR THE INSTALLATION OF ALCALA SOLAR-POWERED FERTIGATION SYSTEM (SPFS-8) IN BRGY. ALCALA, LUNA, LA UNION** with Project Identification Number **DA-RFO 1-2022-INFRA-052-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 2022 in the amount of **One Million Two Hundred Ten Thousand Pesos (PhP1,210,000.00)**.

### **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, **5<sup>th</sup> Floor Conference Room, Aguila Road, Sevilla, City of San Fernando, La Union** and/or through videoconferencing/webcasting} as indicated in paragraph 6 of the **IB**.

## **9. Clarification and Amendment of Bidding Documents**

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the

**IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

## **10. Documents Comprising the Bid: Eligibility and Technical Components**

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section 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 **February 1, 2023**. 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: <b>INSTALLATION OF SOLAR-POWERED IRRIGATION SYSTEM (SPIS)</b>															
7.1	N/A															
10.3	N/A															
10.4	<div>The key personnel (per unit) must meet the required minimum years of experience set below:</div> <table><tr><th>Key Personnel</th><th>General Experience</th><th>Relevant Experience</th></tr><tr><td>Project Engineer</td><td>3 years</td><td>Construction Supervision</td></tr><tr><td>Foreman</td><td>2 years</td><td>Masonry/Carpentry</td></tr></table>	Key Personnel	General Experience	Relevant Experience	Project Engineer	3 years	Construction Supervision	Foreman	2 years	Masonry/Carpentry						
Key Personnel	General Experience	Relevant Experience														
Project Engineer	3 years	Construction Supervision														
Foreman	2 years	Masonry/Carpentry														
10.5	<div>The minimum major equipment requirements (per unit) are the following:</div> <table><tr><th>Equipment</th><th>Capacity</th><th>No. of Units</th></tr><tr><td>HDPE Butt Fusion Machine</td><td></td><td>1</td></tr><tr><td>Generator set</td><td></td><td>1</td></tr><tr><td>PVC Cutter</td><td></td><td>1</td></tr><tr><td>Minor Tools</td><td></td><td>1</td></tr></table>	Equipment	Capacity	No. of Units	HDPE Butt Fusion Machine		1	Generator set		1	PVC Cutter		1	Minor Tools		1
Equipment	Capacity	No. of Units														
HDPE Butt Fusion Machine		1														
Generator set		1														
PVC Cutter		1														
Minor Tools		1														
12	N/A															
15.1	<div>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:</div> <div><div>a.</div><div>The amount of not less than <b>Php24,200.00</b> if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</div></div> <div><div>b.</div><div>The amount of not less than <b>Php60,500.00</b> if bid security is in Surety Bond.</div></div>															
19.2	Partial bids is not allowed.															
20	Latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS), NAMDAC Certificate of Accreditation; R.A. 10601 - Permit to Operate (PTO), Notification letter from BAFE on the PTO 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	Within <b>14 days</b> from receipt of Certificate of Commencement
6	The site investigation reports are: <ul style="list-style-type: none"> <li>• Site Validation Report</li> </ul>
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	b. No dayworks are applicable to the contract.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within 10 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 shall <b>not</b> be included for payment.
15.1	If required, the "as built" Drawings and/or operating and maintenance manuals shall be required within 5 days after final inspection.
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; **or**  
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; **or**  
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 sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; **and**
- (m) Cash Flow by Quarter.



BILL OF QUANTITIES (BOQ)

PROJECT NAME: **INSTALLATION OF ALCALA SOLAR-POWERED FERTIGATION SYSTEM (SPFS-8)**

PROJECT LOCATION: **Brgy. Alcala, Luna, La Union**

PROJECT DESCRIPTION: **Installation of SPFS-8 with a pump discharge of atleast 50 cu.m/hr and minimum daily output of 420 cu.m./day at 10m Static Head**

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
I	MOBILIZATION AND DEMOBILIZATION	l.s.	1.00		
II	CONSTRUCTION OF TEMPORARY FACILITY	l.s.	1.00		
III	CLEARING AND GRUBBING	sq.m	75.00		
IV	EARTHWORKS	cu.m	37.91		
V	RSB WORKS	kgs	292.36		
VI	FORM WORKS	bd.ft	120.00		
VII	CONCRETE WORKS	cu.m	4.00		
VIII	PV MODULE AND MOUNTING	watts	7,280.00		
	-monocrystalline, half cut (144 cells) connected w/ 3-bypass diode -IP68, MC4 plug for easy connection -Efficiency: 20.5% (maximum) -framed w/ rigid anchored corners anodized aluminum				
IX	WATER PUMP	unit	1.00		
	Submersible multi-stage centrifugal water pump: maintenance-free brushless AC/DC motor -Rated power: 4kw - Efficiency: 92% max. -Motor speed: 900-3200 rpm -Min. Rated flow: 50m3/hr @10m static head and 15m pipe length -Min. Daily output: 420m3/day -Pump outlet: 100mm non-return valve -Insulation class: F -Enclosure Class: IP68 -Inputs: Dry running protection -Certified according to IEC 61702 and Conformité Européenne (CE) mark				
X	PUMP CONTROLLER/INVERTER	unit	1.00		
	Controller: off-grid solar inverter compatible with solar pumps; with MPPT -Power rating: max. 4 kw -Input voltage: max. 375V -Optimum VMP: >240V -Motor current: max. 14A -Efficiency: 97% (max) -Enclosure class: IP68 (NEMA 6P) -with protection against reverse polarity, overloading and overheating full automatic operation.				
XI	FERTIGATOR W/ TANK	lot	1.00		
	- Flow range: 2-40GPM -Injection ratio: 1:500-1:50 -Pressure range: 2.2-116 psi-Connection: 1-1/2" NPT -Housing material: Polypropylene -Tank: 1000L HDPE IBC tank w/ steel cage poly tote				
XII	CABLE AND ELECTRICAL WORKS	lot	1.00		
XIII	DISTRIBUTION WORKS	m	250.00		
XIV	MARKER	unit	1.00		
XV	AUXILIARY WORKS (2 sets solar flood light)	lot	1.00		

NUMBER OF DAYS TO COMPLETE THE PROJECT: **45 WORKING DAYS**

TOTAL AMOUNT OF BID (in words and figures): \_\_\_\_\_

Company Name \_\_\_\_\_

Address: \_\_\_\_\_

Name in print & signature of bidder \_\_\_\_\_

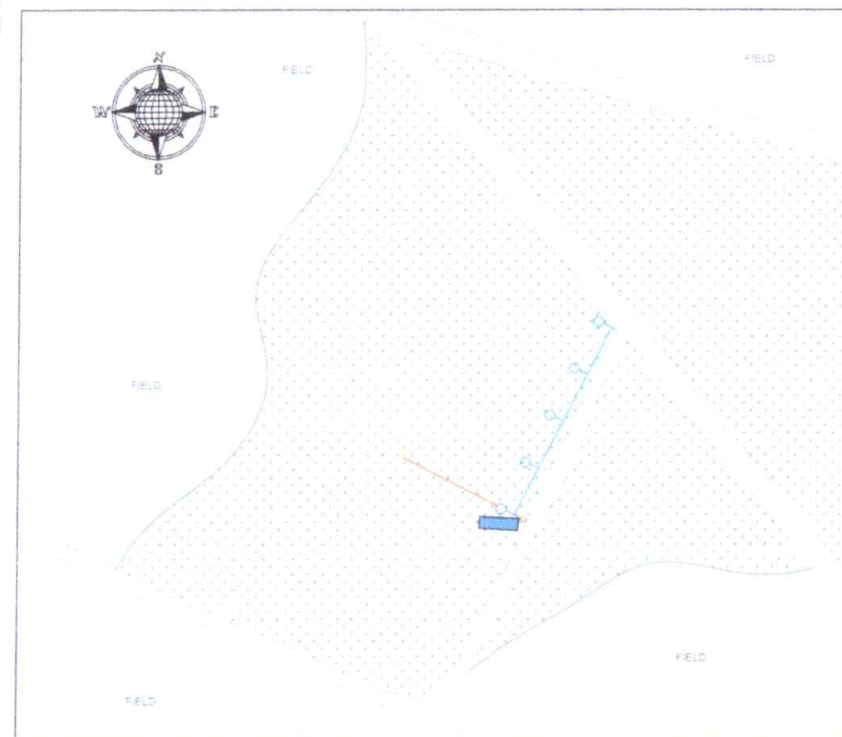




VICINITY MAP ( 16°50'54.16"N; 120°22'50.13"E )  
SCALE NTS



PERSPECTIVE  
SCALE NTS



**LEGEND:**

WATER SOURCE (WELL)

PIPELINE

MOVABLE/ FLEXIBLE PIPE

PV ARRAY

OUTLET

ACCESS ROAD

SERVICE AREA

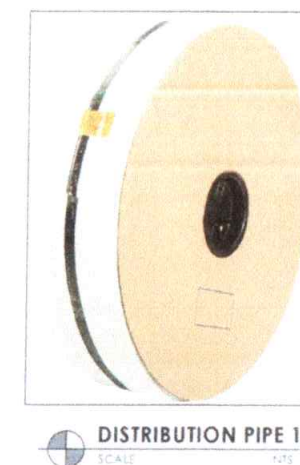
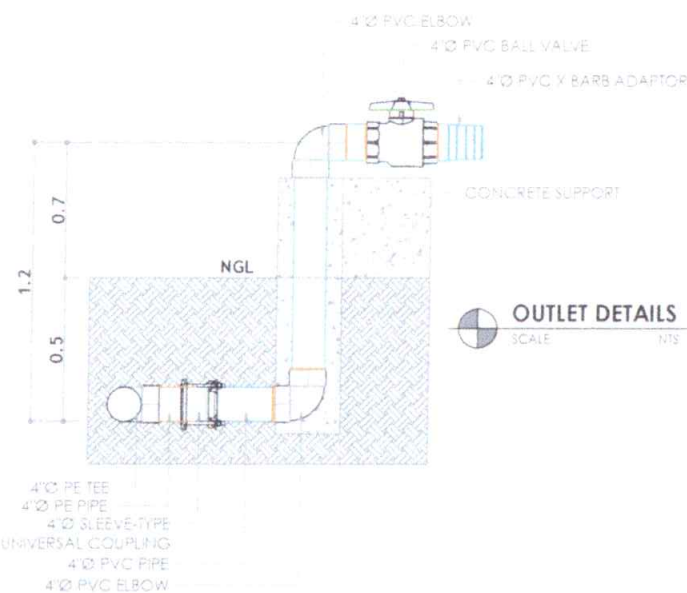
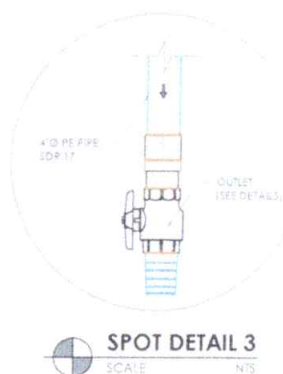
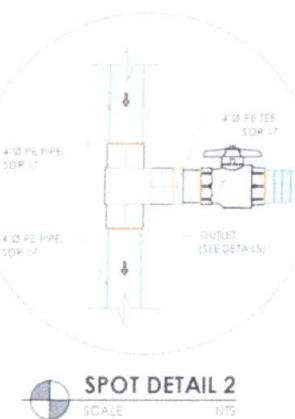
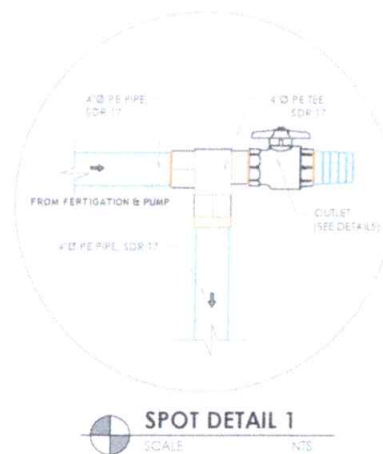
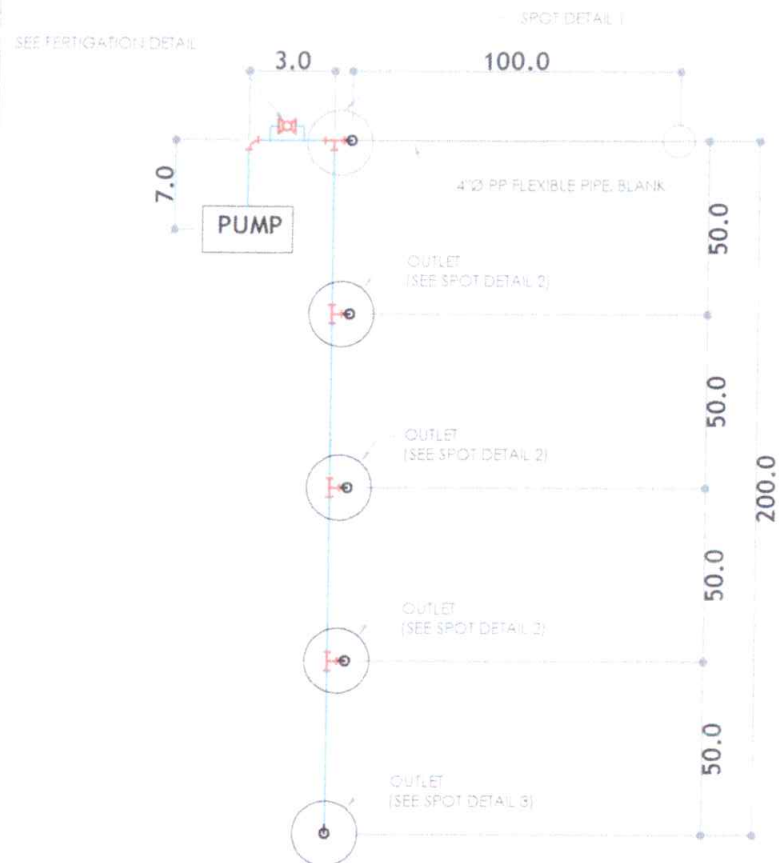


## FARM DEVELOPMENT PLAN

SCALE

NTS

<p>DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE NO. 1 REGIONAL AGRICULTURAL ENGINEERING DIVISION</p>	<p>PROJECT TITLE <b>INSTALLATION OF ALCALA SOLAR POWERED FERTIGATION SYSTEM (SPFS-8)</b></p> <p>PROJECT LOCATION ALCALA, LUNGSOD NG LUNGSOD</p>	<p>PREPARED BY JEMMICA RAO O. URBIZTONDO, ABE</p>	<p>APPROVED &amp; REVIEWED BY JOYDENE G. BUNGBUNG, ABE</p>	<p>RECOMMENDED APPROVAL MARK HARRY G. PASTOR, ABE</p>	<p>FINAL REVIEW ATTY. JENNILYN M. DAWAYAN, CESO IV</p>	<p>VISIT NUMBER VICINITY MAP PERSPECTIVE FARM DEVELOPMENT PLAN</p>	<p>PAGE NO. 1 8</p>
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### DISTRIBUTION LINE SCHEDULE

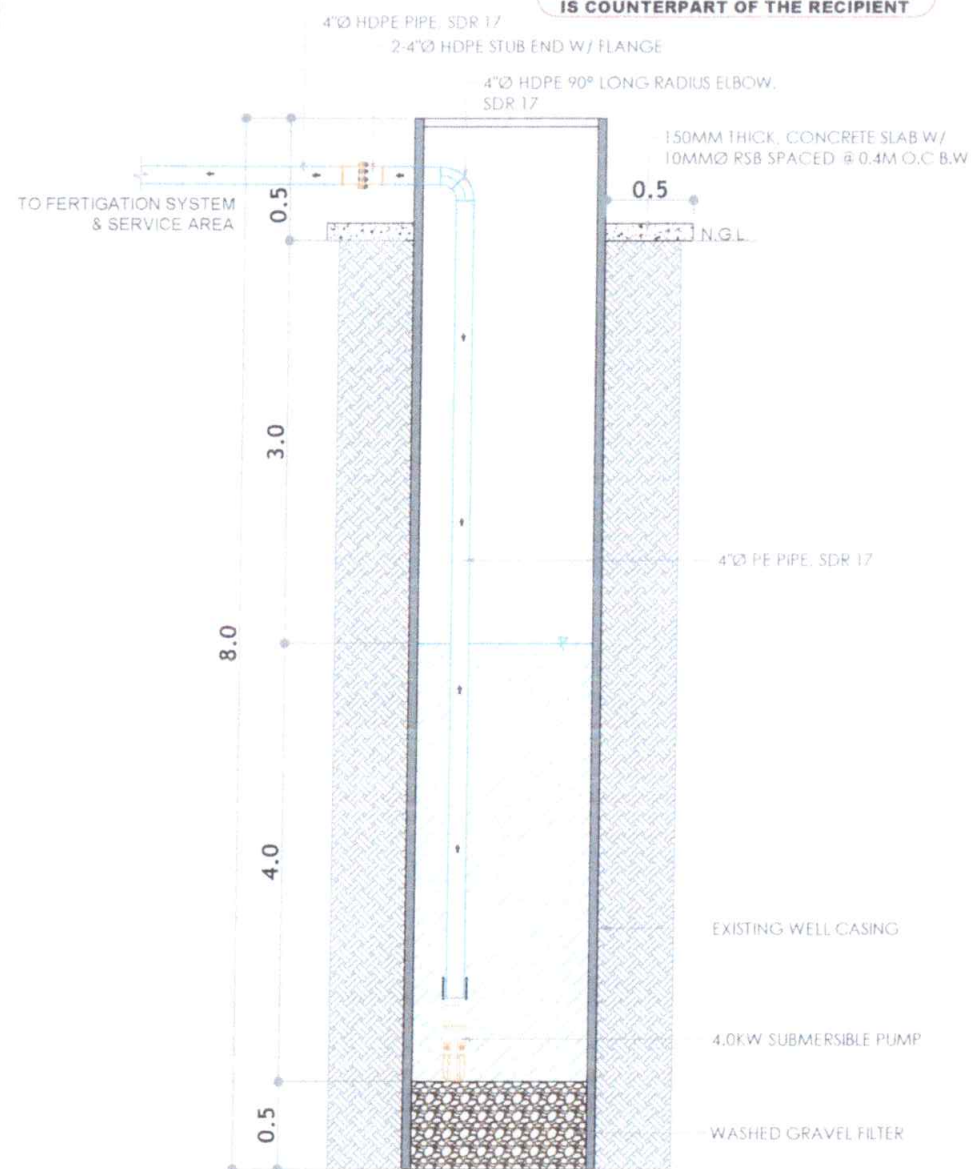
NO	ITEM/DESCRIPTION	MATERIALS	LENGTH, M
1	MAIN LINE (in. OUTLET)	4"Ø PE PIPE, SDR 17	200.0
2	DISTRIBUTION LINE 1 (MOVABLE TYPE)	4"Ø POLYPROPYLENE FLEXIBLE PIPE, BLANK, 0.75 MM WALL THICKNESS	50.0
3	OUTLET	4"Ø PVC VALVE W/ CONCRETE SUPPORT (SEE DETAILS)	5.00
TOTAL LENGTH			250.00

NOTE: DISTRIBUTION LINE MUST BE UV AND CHEMICAL RESISTANT AND HAVE A MIN. WORKING PRESSURE OF 25 PSI

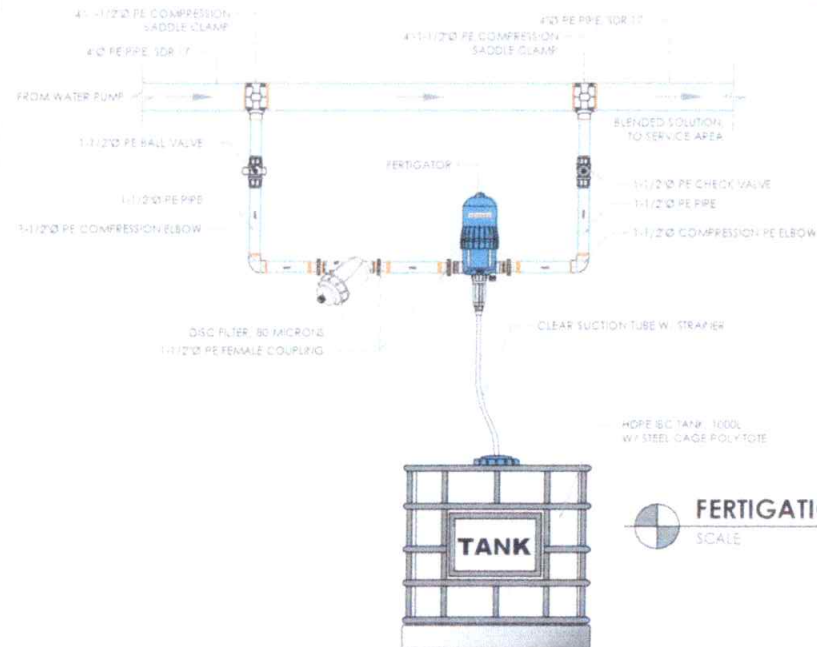
PREPARED BY: <b>DEPARTMENT OF AGRICULTURE</b> REGIONAL FIELD OFFICE NO. 1 REGIONAL AGRICULTURAL ENGINEERING DIVISION	PROJECT TITLE: <b>INSTALLATION OF ALCALA SOLAR POWERED FERTIGATION SYSTEM (SPFS-8)</b>	PREPARED BY: <b>JEMMICA RAE O. RIBIZONDO, ABE</b>	REVIEWED BY: <b>JOYLENE G. BUNGBUNG, ABE</b>	APPROVED BY: <b>MARK HARRY G. PASTOR, ABE</b>	APPROVED BY: <b>ATTY. JENNILYN M. DAWIDAN, CESO IV</b>	SHEET: <b>WATER DISTRIBUTION PLAN</b> <b>SPOT AND OUTLET DETAILS</b> <b>DISTRIBUTION PIPE 1</b>	<b>2</b> <b>8</b>
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**NOTE: DEVELOPMENT OF THE WELL IS COUNTERPART OF THE RECIPIENT**



**DETAIL OF WELL CASING**  
SCALE NTS

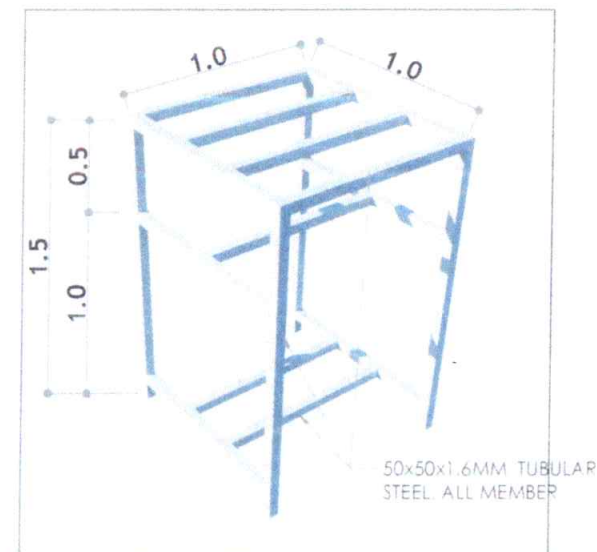


#### FERTIGATOR

##### TECHNICAL DATA

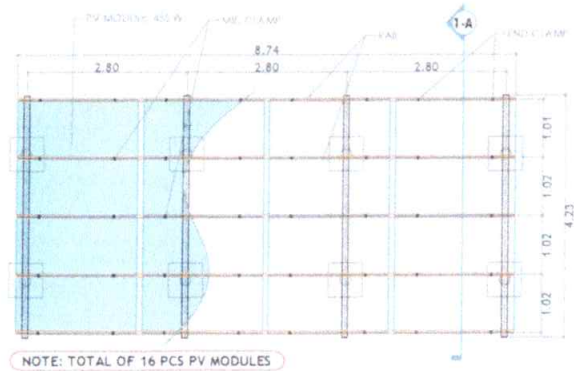
WATER FLOW RANGE	2 - 40 GPM
PRESSURE RANGE	2.2 - 116 PSI
INJECTION RATIO	1:500 - 1:150
HOUSING MATERIALS	POLYPROPYLENE
CONNECTION SIZE	1-1/2" NPT
ACCESSORIES	6 FT CLEAR SUCTION TUBE, STRAINER, MOUNTING BRACKET AND OPERATIONAL MANUAL

**FERTIGATION SYSTEM DETAIL**  
SCALE NTS

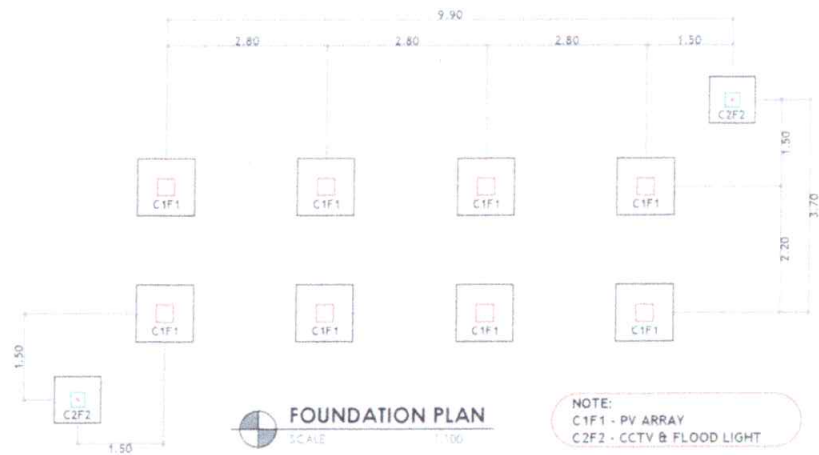


**FERTIGATOR STAND DETAIL**  
SCALE NTS

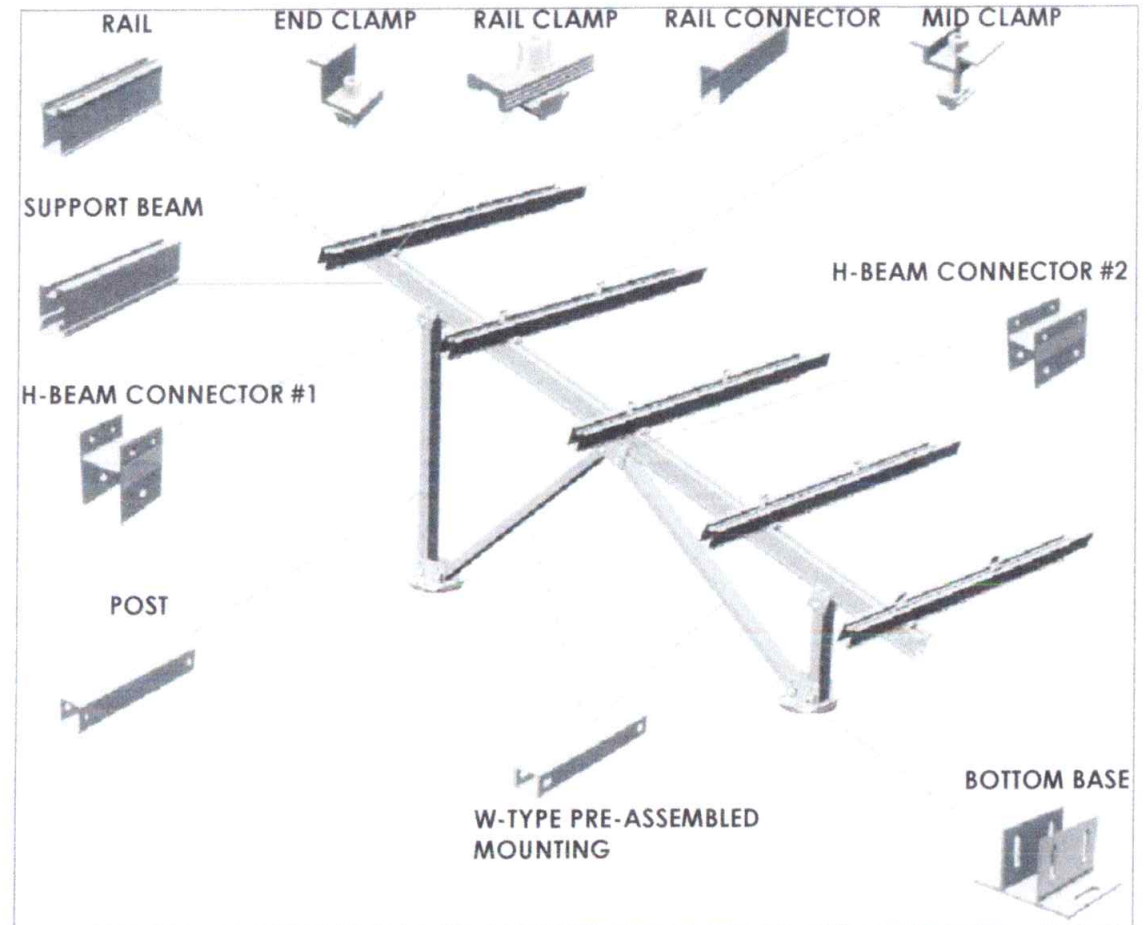
PREPARED BY: JEMIMA RAY O. URBIZTONDO, ABE	PROJECT TITLE: INSTALLATION OF ALCALA SOLAR POWERED FERTIGATION SYSTEM (SPFS-8)	APPROVED BY: JOYLENE G. BUNGUBUNG, ABE	APPROVED BY: MARK HARRY G. PASTOR, ABE	APPROVED BY: ATTY. JENNILYN M. DAWAYAN, CESO IV	SHEET NO.: 3	TOTAL SHEETS: 8
DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE NO. 1 REGIONAL AGRICULTURAL ENGINEERING DIVISION					DETAIL OF WELL CASING	
					FERTIGATION SYSTEM PLAN	



**PV ARRAY PLAN**  
SCALE 1:100



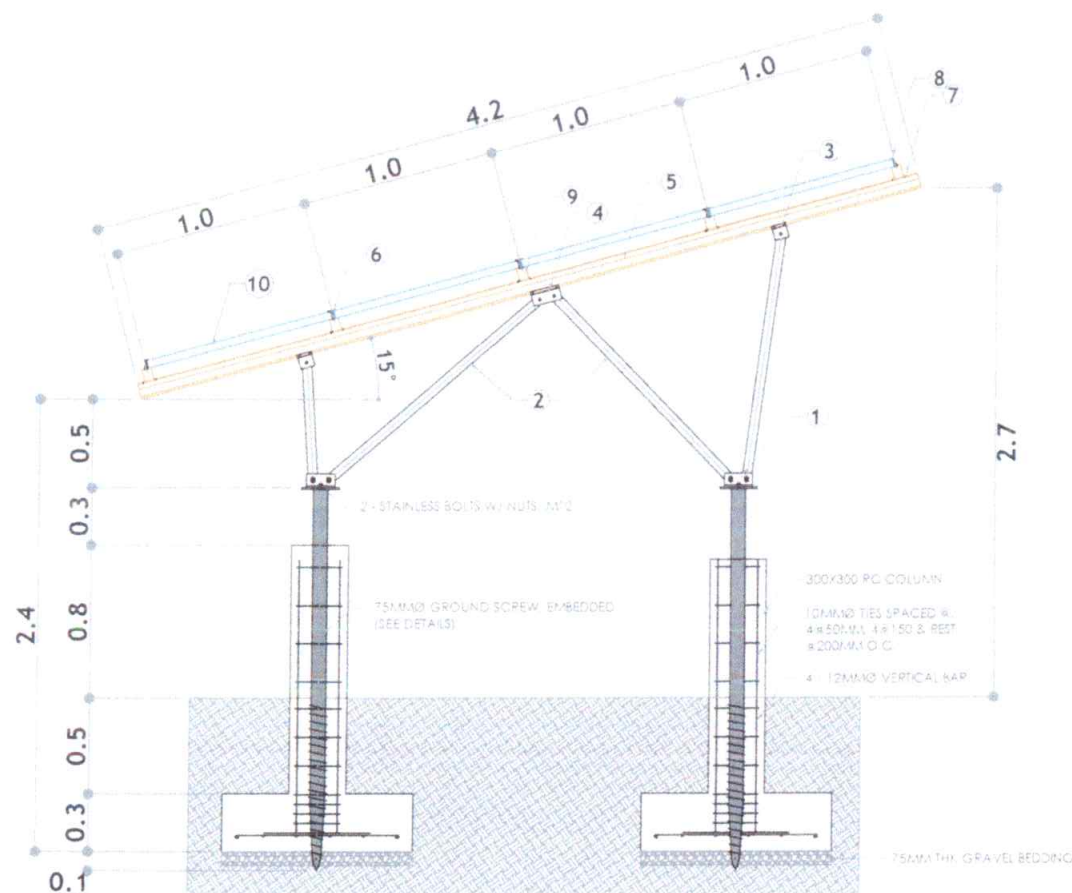
**FOUNDATION PLAN**  
SCALE 1:100



**MOUNTING OVERVIEW**  
SCALE NTS

PREPARED BY: THE OFFICE OF THE <b>DEPARTMENT OF AGRICULTURE</b> REGIONAL FIELD OFFICE NO. 1 BAGUIO CITY, ILOCOS REGION	PROJECT TITLE: <b>INSTALLATION OF ALCALA SOLAR POWERED FERTIGATION SYSTEM (SPFS-8)</b>	DESIGNED BY: <i>[Signature]</i> <b>JEMMICA RAK O. URBIZTONDO, ABE</b>	CHECKED & REVISED BY: <i>[Signature]</i> <b>JOYLENE G. BONGBONG, ABE</b>	REVIEWED/ APPROVED: <i>[Signature]</i> <b>MARK HARRY G. PASTOR, ABE</b>	APPROVED: <i>[Signature]</i> <b>ATTY. JENNILYN M. DARAYAN, LSO IV</b>	SHEET NO. 4 8 PV ARRAY PLAN FOUNDATION PLAN MOUNTING OVERVIEW
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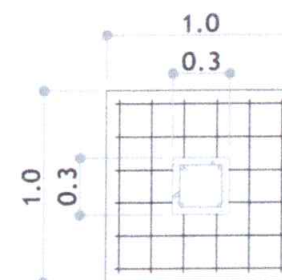
**SECTION 1-A**  
SCALE 1:30

ALL PV MODULES SHALL BE DIRECTLY  
GROUNDED IN THE GROUND SCREW

NOTE: ALL BOLTS AND NUTS MUST BE  
MADE OF STAINLESS STEEL (SUS 304)

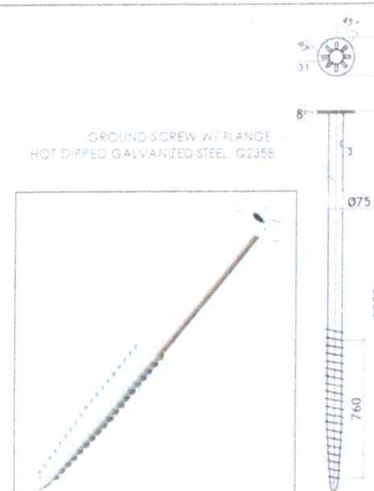
## LEGEND

NO.	ITEM / DESCRIPTION	MATERIALS
1	BOTTOM BASE W/ 2 - BOLTS & NUTS, M12	ANODIZED ALUMINUM (AL6005-T5), STAINLESS STEEL (SUS 304)
2	W-TYPE PRE-ASSEMBLED MOUNTING, 50MMX60MMX3MM, ADJUSTABLE INCLINATION (0° - 20°)	ANODIZED ALUMINUM (AL6005-T5), STAINLESS STEEL (SUS 304)
3	H-BEAM CONNECTOR #1	ANODIZED ALUMINUM (AL6005-T5), STAINLESS STEEL (SUS 304)
4	H-BEAM CONNECTOR #2	ANODIZED ALUMINUM (AL6005-T5), STAINLESS STEEL (SUS 304)
5	SUPPORT BEAM, 60MMX100MMX2MM	ANODIZED ALUMINUM (AL6005-T5)
6	MID CLAMP	ANODIZED ALUMINUM (AL6005-T5), STAINLESS STEEL (SUS 304)
7	RAIL CLAMP	ANODIZED ALUMINUM (AL6005-T5), STAINLESS STEEL (SUS 304)
8	END CLAMP	ANODIZED ALUMINUM (AL6005-T5), STAINLESS STEEL (SUS 304)
9	RAIL, 50MMX70MMX2.5MM	ANODIZED ALUMINUM (AL6005-T5), STAINLESS STEEL (SUS 304)
10	PV MODULES, 455W	MONOCRYSTALLINE, HALF-CUT



NOTE: 6 - 12MM Ø FOOTING RSJ  
BOTHWAYS

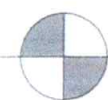
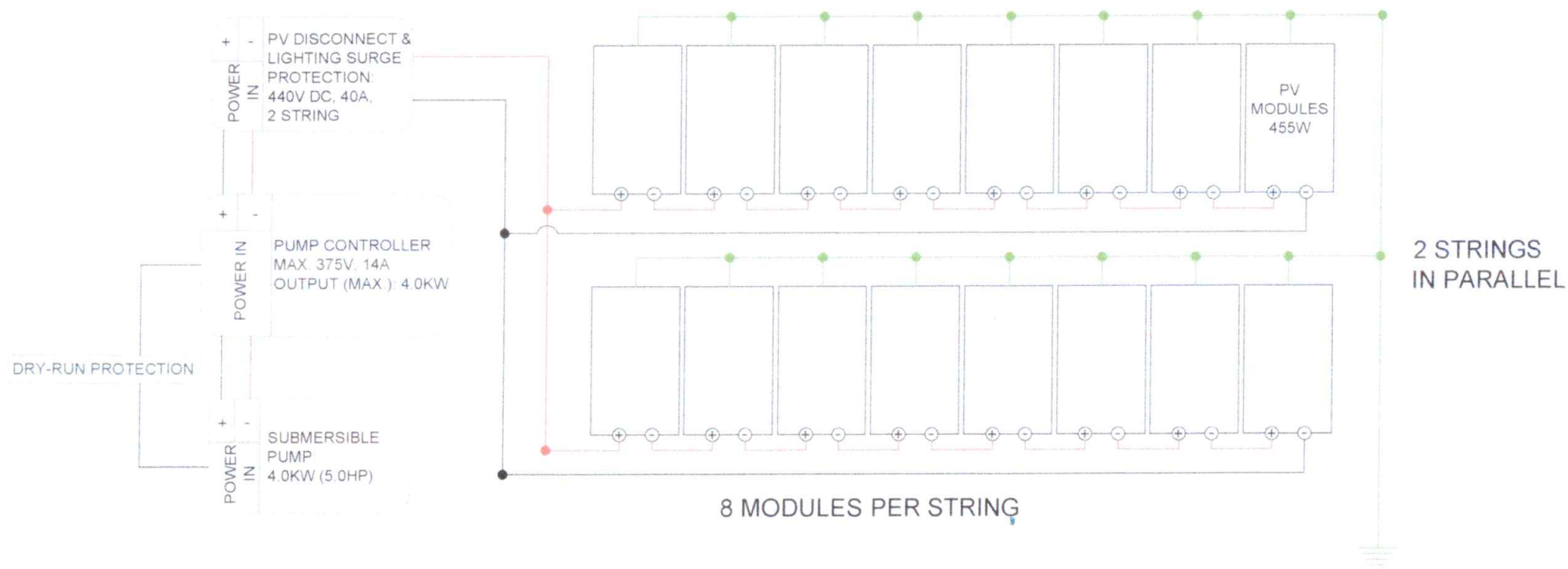
**C1F1 DETAIL**  
SCALE 1:30



**GROUND SCREW DETAILS**  
SCALE 1:30

PREPARED BY: JEMMICA RAO, ARBIZONDO, ABE	PROJECT TITLE: INSTALLATION OF ALCALA SOLAR POWERED FERTIGATION SYSTEM (SPFS-8)	DESIGNED BY: JOYLENE G. BONGUBUNG, ABE	CHECKED BY: MARK HARRY G. PASTOR, ABE	APPROVED BY: ATTY. JENNILYN M. BAWAYAN, CESO IV	SHEET CONTENTS: SECTION 1-A, C1F1 DETAIL, GROUND SCREW DETAIL	SHEET NO.: 5/8
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NOTE: CONTROLLER/INVERTER MUST HAVE A FEATURE TO CONTROL/SET THE PUMP IN DIFFERENT SPEED/RPM

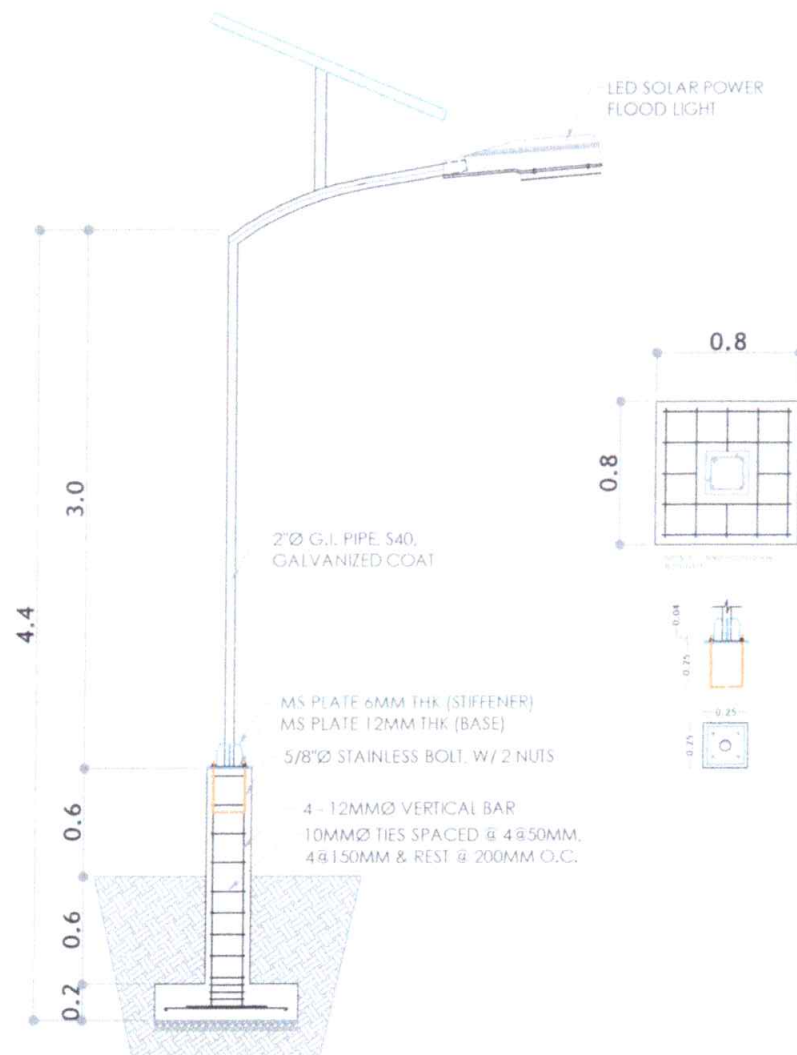


## ELECTRICAL DIAGRAM

SCALE

1:100

PREPARED BY: JEMMICA M. O. URBIZONDO, ABE	DESIGNED BY: JOYLENE G. BUAGUBUNG, ABE	CHECKED BY: MARK HARRY G. PASTOR, ABE	APPROVED BY: ATTY. JENNILYN M. DAWAYAN, CESO IV	PROJECT NO.: 10/05/2020	DATE: 10/05/2020	6
DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE NO. 1 REGIONAL AGRICULTURAL ENGINEERING DIVISION	INSTALLATION OF ALCALA SOLAR POWERED FERTIGATION SYSTEM (SPFS-8)	JEMMICA M. O. URBIZONDO, ABE	JOYLENE G. BUAGUBUNG, ABE	MARK HARRY G. PASTOR, ABE	ATTY. JENNILYN M. DAWAYAN, CESO IV	8



### SOLAR POWER FLOOD LIGHT

TYPE	200 WATTS LED FLOOD LIGHT
HOUSING	IP 67, WEATHER PROOF
INCLUSION	SOLAR PANEL, SOLAR FLOOD LIGHT, 5M LINE, REMOTE CONTROL
FEATURE	TIMER SWITCH: 3HRS, 5HRS, 8HRS AUTOMATIC ON AND OFF SEMI BRIGHT AND BRIGHT

**NOTE: 2 SETS**



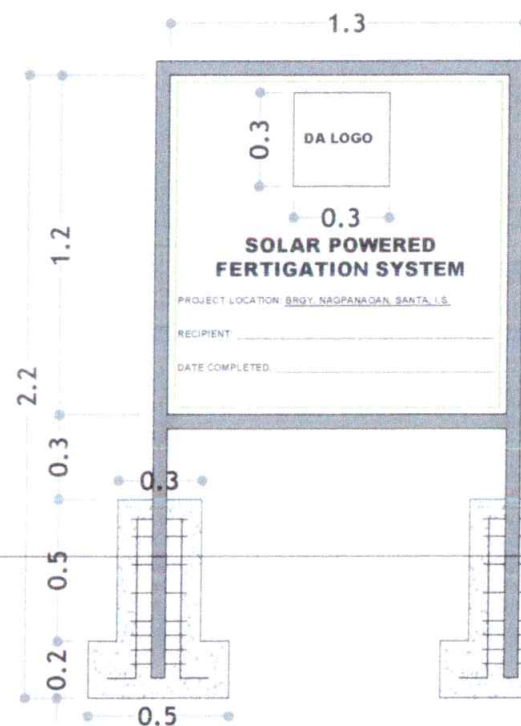
### SOLAR FLOOD LIGHT

SCALE

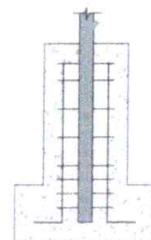
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EXEMPTED FROM THE EFFECT OF THE <b>DEPARTMENT OF AGRICULTURE</b> REGIONAL FIELD OFFICE NO. 1 REGIONAL AGRICULTURAL ENGINEERING DIVISION	PROJECT TITLE <b>INSTALLATION OF ALCALA          SOLAR POWERED          FERTIGATION SYSTEM          (SPFS-8)</b>	PREPARED BY JEMMY A. RAE O. URBIZTONDO, ABE	CHECKED & REVIEWED BY JOYLENE G. BUNGUBUNG, ABE	RECOMMENDED APPROVAL MARK HARRY G. PASTOR, ABE	APPROVED ATTY. JENNILYN M. DAWAYAN, CESO IV	SHEET NO./TOTAL SHEETS MARKER PLAT.	7 8
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## FRONT



2"Ø G.I. PIPE, S40



0.30M X 0.30M  
4PCS - 12MMØ RSB MAIN BAR  
10MMØ TIES  
SPACED @ 4@50MM,  
REST @100MM

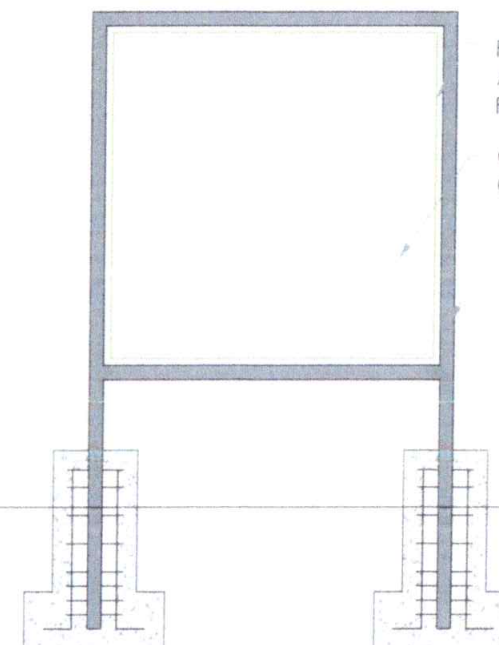


DETAIL OF CONCRETE POST

SCALE

1:20

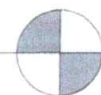
## BACK



FRAMED W/ 1"X1"X $\frac{1}{4}$ "  
ANGLE BAR AND  
FLAT BAR

G.I. SHEET,  
GAUGE 26

2"Ø G.I.  
PIPE, S40



## MARKER PLAN

SCALE

1:20

PREPARED BY: PROJECT ENGINEER	DESIGNED BY: PROJECT ENGINEER	CHECKED BY: PROJECT ENGINEER	APPROVED BY: PROJECT ENGINEER	DATE: 10/05/2020	SHEET NO. 8
 <b>DEPARTMENT OF AGRICULTURE</b> REGIONAL FIELD OFFICE NO. 1 REGIONAL AGRICULTURAL ENGINEERING DIVISION	<b>INSTALLATION OF ALCALA SOLAR POWERED FERTIGATION SYSTEM (SPFS-8)</b>	 JEMIMA RAY G. V. B. ZITO, ABE	 JOYLENE G. BUNGBUNG, ABE	 MARK HARRY G. PASTOR, ABE	 ATTY. JENNILYN M. DAYAWAY-CESOY





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	: <b>INSTALLATION OF ALCALA SOLAR POWERED FERTIGATION SYSTEM (SPFS-8)</b>
Project Location	: <b>Brgy. Alcala, Luna, La Union</b>
Description	: Installation of SPFS-8 with a pump discharge of atleast 50 cu.m./hr and minimum daily output of 420 cu.m/day at 10m Static Head.
Total Project Cost	: <b>Php1,210,000.00</b>

### 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

1.0 L.S.

- 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.
- 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 inspector before use.

#### MINIMUM EQUIPMENT REQUIRED:

1	HDPE Butt Fusion Machine	1	PVC Cutter
1	Generator Set	2	Minor Tools



<b>II. CONSTRUCTION OF TEMPORARY FACILITY</b>	<b>1.0 L.S.</b>
<ul style="list-style-type: none"> <li>The contractor shall install/construct temporary facilities to expeditiously execute the work and shall remove them from the site when no longer required.</li> <li>The contractor shall obtain temporary and maintain in good condition a supply of potable water for construction use.</li> <li>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.</li> </ul>	
<b>III. CLEARING AND GRUBBING</b>	<b>75.0 sq.m</b>
<ul style="list-style-type: none"> <li>The site shall be leveled as according to the plans and cleared of rubbish, roots and other perishable and objectionable matters to a suitable subgrade. All such unsuitable materials shall be removed from the site, or otherwise disposed of as maybe directed by the Project Engineer in charge of the construction.</li> </ul>	
<b>IV. EARTHWORKS</b>	<b>37.91 cu.m.</b>
<ul style="list-style-type: none"> <li>The site shall be leveled according to the plans and cleared of rubbish, roots and other perishable and objectionable matters to a suitable subgrade. All such unsuitable materials shall be removed from the site, or otherwise disposed of as maybe directed by the Project Engineer in charge of the construction.</li> <li>Backfills and fills shall be placed in layers not exceeding 150mm in thickness, and each layer shall be thoroughly compacted by wetting, tamping and rolling.</li> <li>Leveling course shall consist of approved granular fill material furnished and placed as required to replace unsuitable material encountered below foundation elevation of concrete structures and grouted/hand laid riprap.</li> </ul>	
<b>V. RSB WORKS</b>	<b>292.36 kgs.</b>
<ul style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>All main reinforcing steel used in the structure shall conform to ASTM Grade 40 (Intermediate Grade) with yield strength of 40 ksi (276 MPa).</li> <li>All temperature bars shall conform to ASTM Grade 33 Structural Grade with minimum yield strength of 33 ksi (230 MPa).</li> <li>Always apply red oxide for the exposed RSB to eliminate rusting.</li> <li>All hooks shall be in accordance with all standard hooks and anchorages specified in ACI 318-83 Building Code.</li> </ul>	
<b>VI. FORM WORKS</b>	<b>120.0 bd.ft.</b>
<ul style="list-style-type: none"> <li>Forms shall be used whenever necessary to confine the concrete during vibration and to shape it to the required lines. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete and shall be maintained rigidly in position. The strength and rigidity of the forms shall be such that formed surfaces will conform to specification requirements relating to the surface's irregularities and tolerances for concrete construction. Forms shall be tight to prevent loss of mortar from concrete.</li> </ul>	
<b>VII. CONCRETE WORKS</b>	<b>4.0 cu.m.</b>
<ul style="list-style-type: none"> <li>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).</li> </ul>	



- 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 number 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.

#### ***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	7,280.0 watts
<ul style="list-style-type: none"> <li>• Photovoltaic (PV) module shall be monocrystalline half-cut (144 cells) module connected with three bypass diode, IP 68, MC4plug for easy connection. It shall be certified according to IEC 61215, IEC 61730, IEC 61701, IEC 62716, IEC 62804-1, ANSI/UL 1703, TÜV Rheinland/SÜV and Conformité Européenne (CE) mark. Framed with rigid anchored corners anodized aluminum. Optimum operating voltage (Vmp) shall be 41.9V and maximum module efficiency shall be up to 20.5%.</li> <li>• 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.</li> <li>• 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.</li> <li>• PV array shall tilt at an angle of 15° facing south direction ensuring optimum utilization of the solar energy.</li> </ul>	
IX. WATER PUMP	1.0 unit
<ul style="list-style-type: none"> <li>• The pump shall be submersible multi-stage centrifugal pump. The motor shall be maintenance-free brushless AC/DC motor and no electronics in the motor. All steel components are made in stainless steel, (AISI 304) that ensures high corrosive resistance and. It shall be certified according to IEC 61702 and Conformité Européenne (CE) mark. Detailed specifications of the pump listed below:               <ul style="list-style-type: none"> <li>• Rated power: 4.0kw</li> <li>• Efficiency: max. 92%</li> </ul> </li> </ul>	



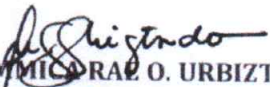
<ul style="list-style-type: none"> <li>• Motor speed: <b>900-3200 rpm</b></li> <li>• Minimum rated flow: 50 m<sup>3</sup>/hr @ 10 m static head</li> <li>• Minimum daily output: 420 m<sup>3</sup>/day</li> <li>• Insulation class: F</li> <li>• Enclosure class: IP68</li> <li>• Pump outlet: 100 mm with non-return valve</li> <li>• Borehole diameter: min. 6 inches</li> <li>• Inputs: dry running protection</li> <li>• An AMTEC test Report is required for this project. If in case the AMTEC is not available during the bid opening a preliminary test report or proof of application may be accepted, however the AMTEC Test requirement must be submitted before the installation of the pump subject to the evaluation of the RAED. Installation of the pump shall proceed if it passed the evaluation conducted. System testing shall be conducted by AMTEC upon completion of the installation of the whole system and must be compliant to the technical specifications required by the office. Consequently, the RAED shall conduct Acceptance testing prior to payment. Both the AMTEC System Test Report and Pump's AMTEC test report shall be requirements to effect final payment.</li> <li>• Further, should the AMTEC test report indicates that the agricultural and fisheries machinery offered by the supplier/ winning bidder fails to meet the prescribed specifications and performance standards set by this office, the procuring entity shall not accept the goods and proceed with the termination of contract on the ground that the supplier/ winning bidder, who is in default, fails to perform any other obligation under the Contract.</li> <li>• Operational manual and maintenance booklet shall be in English language.</li> </ul>	
<b>X. PUMP CONTROLLER / INVERTER</b>	<b>1.0 unit</b>
<ul style="list-style-type: none"> <li>• The controller shall off-grid solar inverter compatible with solar pumps. With integrated Maximum Power Point Tracking (MPPT) and control inputs for dry running protection, motor control and variable speed in order to regulate the discharge of the pump and integral data logger via android application. Also, it shall be protected against reverse polarity, overload and over temperature. Detailed specifications of the inverter listed below: <ul style="list-style-type: none"> <li>• Power: max. 4.0 kw</li> <li>• Input voltage: max. 375V</li> <li>• Optimum VMP: &gt;240 V</li> <li>• Motor current: max. 14 A</li> <li>• Efficiency: max. 97%</li> <li>• Enclosure class: IP 68 (NEMA 6P), outdoor housing, pressure cast aluminum and powder coated cover, pressure cast aluminum case with integrated heat sink.</li> <li>• Operational manual and maintenance booklet shall be in English language.</li> </ul> </li> </ul>	
<b>XI. FERTIGATOR WITH TANK</b>	<b>1.0 unit</b>
<ul style="list-style-type: none"> <li>• The fertigator shall non-electric, water powered compatible for fertilizer injector in a pressure pipe line. With externally adjustable injection rate and built-in bypass. Detailed specifications of the fertigator were listed below: <ul style="list-style-type: none"> <li>• Flow range: 2-40GPM</li> <li>• Injection ratio: 1:500 – 1:50</li> <li>• Pressure range: 2.2 - 116 PSI</li> <li>• Connection: 1-1/2" NPT</li> <li>• Housing material: Polypropylene</li> <li>• Tank: 1000L HDPE IBC tank w/ steel cage poly tote</li> <li>• Operational manual and maintenance booklet shall be in English language.</li> </ul> </li> </ul>	
<b>XII. CABLE AND ELECTRICAL WORKS</b>	<b>1.0 lot</b>
<ul style="list-style-type: none"> <li>• 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</li> </ul>	



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. All work <ul style="list-style-type: none"> <li>• The builder/installer shall install all materials as indicated in the drawings and the necessary circuit protection. Install all equipment and materials in a neat and professional manner.</li> <li>• Provide an appropriate method of direct-to-earth grounding according to the latest edition of the National Electrical Code.</li> </ul>	
<b>XIII. DISTRIBUTION WORKS</b>	<b>250.0 m</b>
<ul style="list-style-type: none"> <li>• 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 surface 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.</li> <li>• 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.</li> <li>• Pressure pipe and fittings for rigid polyvinyl chloride (PVC) compound shall be 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).</li> <li>• HDPE pipe shall be installed either by Open Trench Construction or Directional Bore Method.</li> <li>• Lateral line shall be made of polypropylene flexible pipe combination of blank and with integral welded connectors that manufactured and installed in accordance with international standard (ISO 16438)</li> <li>• Galvanized iron (G.I.) pipe shall meet the requirements specified in one of the following specifications: ASTM A 53, AASHTO M 36 or M 218.</li> <li>• Installation of the distribution line shall be installed at the locations shown on the plans and to the position and spacing.</li> <li>• All pipe and fittings damaged or rejected because of defects shall be removed from the site at the time inspected.</li> </ul>	
<b>XIV. MARKER</b>	<b>1.0 unit</b>
<ul style="list-style-type: none"> <li>• Installation of the project marker shall be constructed as shown on the detailed plans. Synthetic enamels paint shall be used for the project details letterings and logo.</li> </ul>	
<b>XV. AUXILIARY WORKS ( 2 sets of solar flood light)</b>	<b>1.0 lot</b>
<ul style="list-style-type: none"> <li>• Auxiliary works includes the installation of solar flood light.</li> <li>• 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 Project Engineer whose decision shall be final in such cases.</li> </ul>	

*The above scope of work & specifications is intended for the **Installation of Alcala Solar-Powered Fertigation System (SPFS-8) in Brgy. Alcala, Luna, La Union***

Prepared by:

  
**JEMMYCORAE O. URBIZTONDO, ABE**  
Project Assistant III, EPDSS-RAED

Noted:

  
**MARK HARRY G. PASTOR, ABE**  
OIC, RAED

# Technical Specifications

**Instructions:**

[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. 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	
	<ul style="list-style-type: none"><li>• Photovoltaic (PV) module shall be monocrystalline half-cut (144 cells) module connected with three bypass diode, IP 68, MC4plug for easy connection. It shall be certified according to IEC 61215, IEC 61730, IEC 61701, IEC 62716, IEC 62804-1, ANSI/UL 1703, TÜV Rheinland/SÜV and ConformitéEuropéenne (CE) mark. Framed with rigid anchored corners anodized aluminum. Optimum operating voltage (Vmp) shall be 41.9V and maximum module efficiency shall be up to 20.5%.</li></ul>	
	<ul style="list-style-type: none"><li>• 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.</li></ul>	
	<ul style="list-style-type: none"><li>• 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.</li></ul>	
	<ul style="list-style-type: none"><li>• PV array shall tilt at an angle of 15<sup>0</sup> facing south direction ensuring optimum utilization of the solar energy.</li></ul>	
IX	WATER PUMP	
	<ul style="list-style-type: none"><li>• The pump shall be submersible multi-stage centrifugal pump. The motor shall be maintenance-free brushless AC/DC motor and no electronics in the motor. All steel components are made in stainless steel, (AISI 304) that ensures high corrosive resistance and. It shall be certified according to IEC 61702 and ConformitéEuropéenne (CE) mark.Detailed specifications of the pump listed below:</li></ul>	
	<ul style="list-style-type: none"><li>• Rated power: 4.0kw</li></ul>	
	<ul style="list-style-type: none"><li>• Efficiency: max. 92%</li></ul>	
	<ul style="list-style-type: none"><li>• Motor speed: 900-3200 rpm</li></ul>	
	<ul style="list-style-type: none"><li>• Minimum rated flow: 50 m³/hr @ 10 m static head</li></ul>	

	<ul style="list-style-type: none"><li>• Minimum daily output: 420 m<sup>3</sup>/day</li></ul>	
	<ul style="list-style-type: none"><li>• Insulation class: F</li></ul>	
	<ul style="list-style-type: none"><li>• Enclosure class: IP68</li></ul>	
	<ul style="list-style-type: none"><li>• Pump outlet: 100 mm with non-return valve</li></ul>	
	<ul style="list-style-type: none"><li>• Borehole diameter: min. 6 inches</li></ul>	
	<ul style="list-style-type: none"><li>• Inputs: dry running protection</li></ul>	
	<ul style="list-style-type: none"><li>• An AMTEC test Report is required for this project. If in case the AMTEC is not available during the bid opening a preliminary test report or proof of application may be accepted, however the AMTEC Test requirement must be submitted before the installation of the pump subject to the evaluation of the RAED. Installation of of the pump shall proceed if it passed the evaluation conducted. System testing shall be conducted by AMTEC upon completion of the installation of the whole system and must be compliant to the technical specifications required by the office. Consequently, the RAED shall conduct Acceptance testing prior to payment. Both the AMTEC System Test Report and Pump's AMTEC test report shall be requirements to effect final payment.</li></ul>	
	<ul style="list-style-type: none"><li>• Further, should the AMTEC test report indicates that the agricultural and fisheries machinery offered by the supplier/ winning bidder fails to meet the prescribed specifications and performance standards set by this office, the procuring entity shall not accept the goods and proceed with the termination of contract on the ground that the supplier/ winning bidder, who is in default, fails to perform any other obligation under the Contract.</li></ul>	
	<ul style="list-style-type: none"><li>• Operational manual and maintenance booklet shall be in English language.</li></ul>	
<b>X</b>	<b>PUMP CONTROLLER / INVERTER</b>	
	<ul style="list-style-type: none"><li>• The controller shall off-grid solar inverter compatible with solar pumps. With integrated Maximum Power Point Tracking (MPPT) and control inputs for dry running protection, motor control and variable speed in order to regulate the discharge of the pump and integral data logger via android application. Also, it shall be protected against reverse polarity, overload and over temperature. Detailed specifications of the inverter listed below:</li></ul>	
	<ul style="list-style-type: none"><li>• Power: max. 4.0 kw</li></ul>	
	<ul style="list-style-type: none"><li>• Input voltage: max. 375V</li></ul>	
	<ul style="list-style-type: none"><li>• Optimum VMP: &gt;240 V</li></ul>	
	<ul style="list-style-type: none"><li>• Motor current: max. 14 A</li></ul>	
	<ul style="list-style-type: none"><li>• Efficiency: max. 97%</li></ul>	
	<ul style="list-style-type: none"><li>• Enclosure class: IP 68 (NEMA 6P), outdoor housing, pressure cast aluminum and powder coated cover, pressure cast aluminum case with integrated heat sink.</li></ul>	
	<ul style="list-style-type: none"><li>• Operational manual and maintenance booklet shall be in English language.</li></ul>	

**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 c. Telephone Nos.	NATURE OF WORK	CONTRACTOR'S ROLE		a. Date Awarded b. Date Started c. Date Completion	% Accomplishment		Value of Outstanding Works
			Description	%		Planned	Actual	

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 BidderPosition

Date: \_\_\_\_\_

**DEPARTMENT OF AGRICULTURE-REGIONAL FIELD OFFICE 1**

NAME OF PROCURING ENTITY

Project Reference No.: \_\_\_\_\_

Name of the Project: \_\_\_\_\_

Location 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 c. Telephone Nos.	Title of the Project in the Contract	Nature of Work	a. Date Awarded b. Contract Effectivity c. Date Completed	Contractor's Role (whether sole contractor, subcontractor, or partner in a JV)		a. Total Contract Value at Award b. Total Contract Value at Completion c. Contract Duration
					Description	%	
<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 ITS AUTHORIZED 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**

NAME OF PROCURING ENTITY

Standard Form Number: SF-INFR-48

Revised on: August 11, 2004

Contract Reference No.: \_\_\_\_\_

Name of the Contract: \_\_\_\_\_

Location of the Contract: \_\_\_\_\_

**(LIST) Qualification of Key Personnel Proposed to be Assigned to the Contract**

Business Name: \_\_\_\_\_

Business 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					

Minimum Requirements : Project Manager/Engineer  
: Materials Engineer  
: Foreman  
: Foreman

Note : Attached individual resume and PRC License of the (professional) personnel

Submitted by : \_\_\_\_\_  
(Printed Name and Signature)

Designation : \_\_\_\_\_

Date : \_\_\_\_\_

*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 \_\_\_\_\_ (months)  
: to \_\_\_\_\_ (months)

\_\_\_\_\_  
Name and Signature of Employee

It is hereby certified that the above personnel can be assigned to this project, if the contract is awarded to our company.

\_\_\_\_\_  
(Place and Date)

\_\_\_\_\_  
(The Authorized Representative)

*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).* \_\_\_\_\_ **SF-INFR-47b**



**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-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.

- Authorized Managing Officer/Representative
- 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, give name and length of service with previous employers for a ten (10)-year period (attach additional sheet/s), if necessary:

<u>Name and Address of employer</u>	<u>Length of Service</u>
_____	_____ year(s) from _____ to _____
_____	_____ year(s) from _____ to _____
_____	_____ year(s) from _____ to _____

10. Experience:

This should cover the past ten (10) years of experience. (Attach as many pages as necessary to show involvement of personnel in projects using the format below).

*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).* SF-INFR-47a

**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. NESTOR

Position of the Head of the Procuring Entity

DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE 1

CITY OF SAN FERNANDO, LA UNION

Dear Sir/Madame:

I am (Name of Nominee) a Licensed \_\_\_\_\_ Engineer with Professional License No. \_\_\_\_\_ issued on (Date of Issuance) at (place of issuance).

I hereby certify that (Name of Bidder) has engaged my services as (designation) for (name of the Contract), if awarded to it.

As (designation), I supervised the following completed projects similar to the contract under bidding:

NAME OF PROJECT	OWNER	COST	DATE COMPLETED
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

At present, I am supervising the following projects:

NAME OF PROJECT	OWNER	COST	DATE COMPLETED
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

In case of my separation for any reason whatsoever from the above-mentioned contractor, I shall notify the (Name of the Procuring Entity) at least twenty one (21) days before the effective date of my separation.

As (Designation), I know I will have to stay in the job site all the time to supervise and manage the Contract works to the best of my ability, and aware that I am authorized to handle only one (1) 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) in any future \_\_\_\_\_ (*Name of the Procuring Entity*) bidding or employment with any Contractor doing business with the *Name of the Procuring Entity* \_\_\_\_\_.

\_\_\_\_\_  
(Signature of Engineer)

DRY SEAL

Republic of the Philippines )  
\_\_\_\_\_ ) S.S.

SUBSCRIBED AND SWORN TO before me this \_\_\_\_\_ day of \_\_\_\_\_ 2022 affiant exhibiting to me his/her Residence Certificate No. \_\_\_\_\_ issued on \_\_\_\_\_ at \_\_\_\_\_.

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 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).* \_\_\_\_\_ 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, PLEDGED 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 equipment required for the project

Submitted by : \_\_\_\_\_

(Print name and affix signature)

Designation : \_\_\_\_\_

Date : \_\_\_\_\_

## 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

Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a 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 Line of Credit (CLC), it must be at least equal to ten percent (10%) of the ABC to be bid and shall be confirmed or authenticated by a local universal or commercial 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]*

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### 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 guidelines<sup>12</sup> 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;
- i. 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]*.
- l. 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.

Name: \_\_\_\_\_

Legal capacity: \_\_\_\_\_

Signature: \_\_\_\_\_

Duly authorized to sign the Bid for and behalf of: \_\_\_\_\_

Date: \_\_\_\_\_