



Bid Notice Abstract

Invitation to Bid (ITB)

Reference Number

11587551

Procuring Entity

NATIONAL IRRIGATION ADMINISTRATION - REGION IX

Title

Construction of Solar Powered Pump with AI Satellite-Assisted Monitoring and Fertigation System for ZDS IMO & ZS IMO Projects (Clustered), Zambo. Sur & Zambo. Sibugay

Area of Delivery

Zamboanga Del Sur

<b>Solicitation Number:</b>	NIAR9-EPA-EGPIPCUSTERED2025-007 (INFRA)	<b>Status</b>	Active
<b>Trade Agreement:</b>	Implementing Rules and Regulations	<b>Associated Components</b>	3
<b>Procurement Mode:</b>	Public Bidding	<b>Bid Supplements</b>	0
<b>Classification:</b>	Civil Works	<b>Document Request List</b>	1
<b>Category:</b>	Construction Projects	<b>Date Published</b>	07/12/2024
<b>Approved Budget for the Contract:</b>	PHP 94,429,518.64	<b>Last Updated / Time</b>	07/12/2024 00:00 AM
<b>Delivery Period:</b>	150 Day/s	<b>Closing Date / Time</b>	26/12/2024 09:00 AM
<b>Client Agency:</b>			
<b>Contact Person:</b>	Antonio B. Gujeling BAC Chairperson Lot 2, Block 15, Regional Center IX, Balintawak Pagadian City Zamboanga Del Sur Philippines 7017 63-62-9453512 63-62-9453512 niaregion9bac@gmail.com		

Description

Section I. Invitation to Bid

Invitation to Bid for  
Construction of Solar Powered Pump with AI Satellite-Assisted Monitoring and Fertigation System for ZDS IMO & ZS IMO Projects (Clustered)

The National Irrigation Administration – Regional Office IX BAC, through the CY 2025 National Expenditure Program (NEP) for General Appropriation Act (GAA) 2025 Fund, invites contractors to submit bids for the following Contract:

Contract Reference No. : NIAR9-EPA-EGPIPCUSTERED2025-007 (INFRA)  
Project Name : Zambo. Sur & Zambo. Sibugay (Clustered)  
Contract Location : Zambo. Sur & Zambo. Sibugay  
Scope of Works : Construction of Six (6) units Solar Powered Pump with AI Satellite-Assisted Monitoring and Fertigation System  
Approved Budget for the Contract (ABC) : PHP 94,429,518.64  
Contract Duration : 150 Calendar Days  
Amount of Bidding Documents : PHP 50,000.00

The NIA – RO9 BAC is conducting an Early Procurement Activity (EPA) on public bidding for this Contract in accordance with Republic Act 9184, otherwise known as the "Government Procurement Reform Act" and its Revised Implementing Rules and Regulations (RIRR).

To be eligible to bid for the above-stated Contract, a contractor must meet the following major requirements: (a) Filipino Citizen or 60% Filipino-owned partnership/corporation; (b) completion of a similar contract costing at least 50% of the ABC, and (c) Net Financial Contracting Capacity (NFCC) at least equal to ABC.

Interested bidders are required to submit two (2) Valid IDs of the Authorized Managing Officer/Authorized Liaison Officer indicated in the submitted Company Profile/CRC. Updated Company Profile shall also be submitted and presented to the NIA-R9 BAC Secretariat upon purchased of the Bidding Documents.

Credit line commitment shall no longer be accepted as an alternative to the prospective bidder's computation of NFCC per GPPB Resolution No. 20-2013 dated July 30, 2013.

Bidding will be conducted through open competitive bidding procedures using non-discretionary "pass/fail" criterion in the eligibility check, preliminary evaluation of bids, post qualification, and award.

The significant times and deadlines of procurement activities are shown below:

Issuance of Bidding Documents : December 7 – 26, 2024 at 8:30 AM

Pre-bid Conference : December 13, 2024 at 9:00 AM

Submission of Bids : December 26, 2024 at 8:30 AM

Opening of Bids : December 26, 2024 at 9:00 AM

Interested bidders may obtain further information from NIA – RO9 BAC and inspect the Bidding Documents at the address given below starting December 7 – 26, 2024.

A complete set of Bidding Documents may be purchased by Interested Bidders from the address below and upon payment of a non-refundable fee for the Bidding Documents prescribed in the above-mentioned list of projects.

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity, provided that bidders shall pay the fee for the Bidding Documents not later than the submission of their bids.

Only the Authorized Managing Officer/Authorized Liaison Officer indicated in the submitted Company Profile/CRC shall be authorized to purchase and submit bidding documents. The use of Special Power of Attorney (SPA) is prohibited as per NIA Memorandum Circular No.52 series 2014 dated December 1, 2014.

The NIA – RO9 BAC will hold a Pre-Bid Conference on 13 December 2024 at 9:00 AM at Conference Room, National Irrigation Administration – Regional Office IX, Regional Center, Balintawak, Pagadian City, which shall be open to all interested parties.

Bids must be duly received by the BAC Secretariat thru manual submission at the office address as indicated below on or before 26 December 2024 at 08:30 AM. Late bids shall not be accepted.

All bids must be accompanied by a Bid Securing Declaration or Bid Security in any of the acceptable forms and in the amount stated in ITB. Clause 18.1. Bids will be opened in the presence of the bidder's authorized managing officer or authorized liaison officer of interested parties at the address below.

The NIA – RO9 BAC additional guidelines is the conduct of site inspection to be scheduled during Pre-Bid Conference.

- The CERTIFICATE OF SITE INSPECTION shall be issued and signed by the NIA R9 Authorized Representative after the activity, which SHALL be required to include in the bid tender (Technical Component).

Prospective bidders shall submit their sealed envelopes together with the duly accomplished forms as provided in the BD's on or before the deadline of dropping of the bid documents at the NIA – RO9 BAC by the Authorized Managing Officer (AMO) or Authorized Liaison Officer indicated in the submitted Company Profile/CRC of the parties. The liaison officer shall submit a letter from the AMO authorizing her/him to drop their bid, attend the bidding process and also submit a copy of company I.D. for verification. No Special Power of Attorney (SPA) shall be allowed.

The Procuring Entity shall not be held responsible of any and all bid documents/proposals losses. All interested contractors/bidders must inform the BAC Chairperson thru its Secretariat of their documents submitted in any means provided above before the date of the bid opening to avoid late submission.

The NIA – RO9 BAC reserves the right to accept or reject any bid, to annul the bidding process, and to reject all bids at any time prior to contract award, without thereby incurring any liability to the affected bidder or bidders, in accordance with the provisions of Section 41 of RA 9184 and its IRR.

Pursuant to NIA Memorandum Circular No. 119 s. 2020, Subject: POLICY ON UTILIZATION OF VIDEOCONFERENCING, WEBCASTING OR SIMILAR TECHNOLOGY IN THE CONDUCT OF PUBLIC PROCUREMENT ACTIVITIES, procurement proceedings for the above mention contracts will be held through face-to-face meeting in combination with video conferencing using Google Meet thru the links:

Pre-Bidding Conference : <https://meet.google.com/hev-uxfp-utg>

Opening of Bids : <https://meet.google.com/bkn-mldq-rvv>

Any requests for additional information concerning this bidding shall be directed to the following:

MARIETTA M. CORTES  
BAC Secretariat Head, NIA-Regional Office  
Regional Center IX, Balintawak, Pagadian City, Zambo. Sur  
[nlaregion9bac@gmail.com](mailto:nlaregion9bac@gmail.com)  
09630884373 – Office Number  
Date Posted: December 7, 2024

(Sgd)  
ANTONIO B. GUJELING

**BAC Chairperson**

5.2 For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: Completed for the past five (5) years.

- Irrigation and Flood Control with experience in Solar Powered Pumps

To be eligible to bid for the contract, bidders must have done a Single Largest Completed Contract (SLCC) containing a category of work which is the same as or similar to the Major Category of Works, and who's total SLCC cost is at least 50% of the Approved Budget for the Contract (ABC) to be bid.

The above SLCC must be supported by a Copy of the Contract, Certificate of Completion, and Owner's Certificate of Final Acceptance (1-year after the Issuance of the Certificate of Completion) Issued by the project owner other than the contractor or a final rating of at least Satisfactory in the Constructors Performance Evaluation System (CPES). In case of contracts with the private sector, an equivalent document shall be submitted.

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.

Interested bidders shall have at least or any equivalent to PCAB Size Range "Medium A" Category: "B" (per PCAB Board Resolution No. 201, Series of 2017), SP-WD (Well-Drilling Work) and SP-ME (Mechanical Works).

Additional valid Certificate of Well Driller Registration issued by the National Water Resources Board (NWRB) will be evaluated.

**10.4**

The key personnel must meet the required minimum years of experience set below:

Key Personnel Relevant Experience General Experience Number

Project Engineer 5 years A licensed Civil Engineer. Experienced in Solar Powered Irrigation Projects. Shall render full-time service to the project until completion. 10 years 2

Office Engineer 3 years A licensed Civil Engineer. Shall render full-time service to the project until completion. 5 years 2

Materials Engineer 1 3 years Shall be an accredited Material Engineer of DPWH. Shall render service to the project as required. 3 years 2

Foreman 5 years Experienced in Solar Powered Irrigation Projects. Shall render full-time service to the project until completion. 5 years 6

Safety & Health Officer (SO2) 3 years Shall have at least 3 years' experience in construction

Industry. Completed COSH Training and shall render fulltime service to the project until completion. 3 years 2

Geologist 5 years A licensed Geologist with experience in Solar Powered Irrigation Projects. Shall render service to the project as required. 5 years 2

Electrical Engineer 3 years A licensed Electrical Engineer with experience in Solar Powered Irrigation Projects. Shall render service to the project as required. 3 years 2

Mechanical Engineer 3 years A licensed Mechanical Engineer with experience in Solar Powered Irrigation Projects. Shall render service to the project as required. 3 years 2

The contractor may assign other support personnel from those listed for the optimal performance of the project construction team. The support personnel shall undertake the required day-to-day site or office-related activities of the contractor.

Full time services mean, the personnel involved shall render minimum of eight (8) hours a day or forty (40) hour a week and shall be available upon request of the procuring entity.

10.5 The minimum major equipment requirements are the following:

Equipment Capacity No. of Units

Crawler Type Drilling Rig (Rotary or Hydraulic Driven) 100m 4

Compressor 160 cfm 4

Generator Set 15kVA 4

Submersible Pump (for Pump Testing) 15hp 4

Dump Truck 10 cu.m. 2

Welding Machine 300A 6

Concrete Mixer 1-Bagger 6

Butt Fusion Machine Up to 6" diameter 1

Geo-resistivity Equipment (Multi-electrode) Up to 100m depth 2

Survey Instrument 1 set

**INITIAL EQUIPMENT REQUIREMENT UPON MOBILIZATION:**

Equipment Capacity No. of Units

Crawler Type Drilling Rig (Rotary or Hydraulic Driven) 100m 4

Dump Truck 10 cu.m. 2

Geo-resistivity Equipment (Multi-electrode) Up to 100m depth 2

Survey Instrument 1 set

The proof of ownership of equipment requirements are copies of current LTO Official Receipt (OR) and Certificate of Registration (CR) of the equipment which should be attached together with the affidavit of ownership. In case of Leased Equipment, a Lease Contract and affidavit of Commitment or Certificate of Availability of Equipment should be submitted with the lessor/owner as the pledger of the equipment, stating therein that the equipment will be available for the whole duration of the project. For Purchase Agreement, the description of the equipment to be purchased such as Brand/Model, Type of Equipment, Motor No., Body No. and the Capacity must be indicated in the document, otherwise, the BAC will not honor the Purchase Agreement and the bidder will be declared as non-complying. Likewise, List of contractor's major equipment units pledged to be used for the project must be supported by proof of ownership if it is owned, lease agreement if it is being leased and purchase agreement if to be purchased. A CERTIFICATION OF AVAILABILITY OF EQUIPMENT for the duration of the project must also be provided by the equipment owner and/or lessor/vendor.

The bidder should also specify in the submitted bid the location of the equipment where it can be inspected. If any piece of equipment is not in the specified location, then the bidder shall be POST-DISQUALIFIED.

ITEM NO. DESCRIPTION QTY UNIT

PACKAGE 1 – BAG-ONG BAROY SPIP: 18,931,006.76

A. CONSTRUCTION OF ONE (1) UNIT 15HP SOLAR PV SUBMERSIBLE PUMPING SYSTEM @ 80M DEPTH

Mobilization and Demobilization, Temporary Facilities and Construction of Safety and Health Program

Mobilization and Demobilization 1.00 ls

Temporary Facilities

Construction of Worker Shed/Bodega (5x4 meters) 1.00 ls

Construction of Project Billboard 2.00 unit

B. Construction Safety and Health Program 1.00 ls

C. Well Drilling 80.00 ln.m

D. Well Casing and Well Development

Well Development 1.00 unit

Gravel pack/gravel filter 1.30 cu.m

Supply and Delivery of 8" Ø uPVC Pipe x 6m 80.00 ln.m

Installation of 8" Ø uPVC Pipe x 6m 80.00 ln.m

E. Pumping Test (Specification of pump to be procured is based on the result of pumping test)

Pump Test (using 15hp pump) 1.00 lot

F. Supply, Delivery and Installation of Submersible pump, piping & accessories

Supply and Delivery

Submersible Pump (15hp) 1.00 set

Flow Meter 1.00 assy

4" Hydraulic Control Valve 1.00 assy

Pipes and Fittings 1.00 lot

Installation

Installation of Submersible Pump (15hp), flow meter, hydraulic control valve, and Pipes and Fittings 1.00 lot

G. Solar Panel

Supply and Delivery

PV Modules (Solar Panel 600watts) 32.00 pc

MC4 Connector 60.00 pair

DC Cable from PV String (1x4mm2) 188.00 m

AC Cable (8.0mm2) 188.00 m

2" Ø RSC Conduit 188.00 m

Grounding 1.00 lot

Installation

Installation of PV Modules, Conduits, Cables and Accessories 1.00 lot

H. Inverter & Control Panel

Inverter and Control Panel

Supply & Delivery 1.00 lot

Installation 1.00 lot

I. Mounting Structures

Mounting Structure

Supply, Delivery and Fabrication 1.00 lot

Installation 1.00 lot

Structure Excavation (manual) 4.32 cu.m

Structure Backfill (manual) 2.43 cu.m

Class "A" Concrete 2.16 cu.m

Gravel Blanket 23.02 cu.m

Reinforcing Steel Bar

Furnishing & Stockpiling 333.96 kg

Cut, Bend and Place 333.96 kg

Painting Works 4.50 sq.m

J. AI Satellite Assisted Monitoring System

AI Satellite Assisted Monitoring System

Supply & Delivery 1.00 lot

Installation 1.00 lot

K. Fertigation System

Fertigation System & Accessories

Supply & Delivery 1.00 lot

Installation 1.00 lot

L. Distribution Pipes

HDPE ISO4427 SDR 21 2" dia x 6m

Supply & Delivery 676.00 pc

Installation 676.00 pc

Pipes and fittings 1.00 lot

4" Layflat pipe (Including end connectors)

Supply & Delivery 22.00 roll

Installation 22.00 roll

3" Layflat pipe (including end connectors) Supply & Delivery 20.00 roll Installation 20.00 roll 2" Layflat pipe (including end connectors) Supply & Delivery 5.00 roll Installation 5.00 roll  M. Construction of Perimeter Fence, Stilling pool and NIA Logo Structure Excavation (manual) 13.69 cu.m Structure Backfill (manual) 5.14 cu.m Class "A" Concrete 30.68 cu.m Reinforcing Steel Bar Furnishing & Stockpiling 1,036.61 kg Cut, Bend and Place 1,036.61 kg Masonry Works 4" thk. CHB (laying & plastering of both sides) 34.28 sq.m Cyclone Chain Wire 103.05 ln.m 2" Ø G.I. pipe (sch. 40) 175.20 ln.m Painting Works 10.64 sq.m Water Proofing 88.00 sq.m Gravel Blanket 3.31 cu.m Red Oxide Metal Primer 0.27 sq.m  N. Construction of Control House Structure Excavation (manual) 3.22 cu.m Structure Backfill (manual) 1.17 cu.m Class "A" Concrete 4.33 cu.m Reinforcing Steel Bar Furnishing & Stockpiling 414.25 kg Cut, Bend and Place 414.25 kg Masonry Works 4" thk. CHB (laying & plastering of both sides) 25.48 sq.m Painting Works 71.69 sq.m Water Proofing 12.25 sq.m Gravel Blanket 1.07 cu.m  PACKAGE 2 – COMPOUND PIP: 14,197,882.09 A. CONSTRUCTION OF ONE (1) UNIT 15HP SOLAR PV SUBMERSIBLE PUMPING SYSTEM @ 80M DEPTH Mobilization and Demobilization, Temporary Facilities and Construction of Safety and Health Program Mobilization and Demobilization 1.00 ls Temporary Facilities Construction of Worker Shed/Bodega (5x4 meters) 1.00 ls Construction of Project Billboard 2.00 unit  B. Construction Safety and Health Program 1.00 ls  C. Well Drilling 80.00 ln.m  D. Well Casing and Well Development Well Development 1.00 unit Gravel pack/gravel filter 1.30 cu.m Supply and Delivery of 8" Ø uPVC Pipe x 6m 80.00 ln.m Installation of 8" Ø uPVC Pipe x 6m 80.00 ln.m  E. Pumping Test (Specification of pump to be procured ls based on the result of pumping test) Pump Test (using 15hp pump) 1.00 lot  F. Supply, Delivery and Installation of Submersible pump, piping & accessories Supply and Delivery Submersible Pump (15hp) 1.00 set Flow Meter 1.00 assy 4" Hydraulic Control Valve 1.00 assy Pipes and Fittings 1.00 lot Installation Installation of Submersible Pump (15hp), flow meter, hydraulic control valve, and Pipes and Fittings 1.00 lot  G. Solar Panel Supply and Delivery PV Modules (Solar Panel 600watts) 32.00 pc MC4 Connector 60.00 pair DC Cable from PV String (1x4mm2) 188.00 m AC Cable (8.0mm2) 188.00 m 2" Ø RSC Conduit 188.00 m Grounding 1.00 lot Installation Installation of PV Modules, Conduits, Cables and Accessories 1.00 lot  H. Inverter & Control Panel Inverter and Control Panel Supply & Delivery 1.00 lot Installation 1.00 lot
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**I. Mounting Structures**

Mounting Structure

Supply, Delivery and Fabrication 1.00 lot

Installation 1.00 lot

Structure Excavation (manual) 4.32 cu.m

Structure Backfill (manual) 2.43 cu.m

Class "A" Concrete 2.16 cu.m

Gravel Blanket 23.02 cu.m

Reinforcing Steel Bar

Furnishing &amp; Stockpiling 333.96 kg

Cut, Bend and Place 333.96 kg

Painting Works 4.50 sq.m

**J. AI Satellite Assisted Monitoring System**

AI Satellite Assisted Monitoring System

Supply &amp; Delivery 1.00 lot

Installation 1.00 lot

**K. Fertigation System**

Fertigation System &amp; Accessories

Supply &amp; Delivery 1.00 lot

Installation 1.00 lot

**L. Distribution Pipes**

HDPE ISO4427 SDR 21 2" dia x 6m

Supply &amp; Delivery 74.00 pc

Installation 74.00 pc

Pipes and fittings 1.00 lot

4" Layflat pipe (including end connectors)

Supply &amp; Delivery 5.00 roll

Installation 5.00 roll

3" Layflat pipe (including end connectors)

Supply &amp; Delivery 3.00 roll

Installation 3.00 roll

2" Layflat pipe (including end connectors)

Supply &amp; Delivery 2.00 roll

Installation 2.00 roll

**M. Construction of Perimeter Fence, Stilling pool and NIA Logo**

Structure Excavation (manual) 13.69 cu.m

Structure Backfill (manual) 5.14 cu.m

Class "A" Concrete 30.68 cu.m

Reinforcing Steel Bar

Furnishing &amp; Stockpiling 1,036.61 kg

Cut, Bend and Place 1,036.61 kg

Masonry Works

4" thk. CHB (laying &amp; plastering of both sides) 34.28 sq.m

Cyclone Chain Wire 103.05 ln.m

2" Ø G.I. pipe (sch. 40) 175.20 ln.m

Painting Works 10.64 sq.m

Water Proofing 88.00 sq.m

Gravel Blanket 3.31 cu.m

Red Oxide Metal Primer 0.27 sq.m

**N. Construction of Control House**

Structure Excavation (manual) 3.22 cu.m

Structure Backfill (manual) 1.17 cu.m

Class "A" Concrete 4.33 cu.m

Reinforcing Steel Bar

Furnishing &amp; Stockpiling 414.25 kg

Cut, Bend and Place 414.25 kg

Masonry Works

4" thk. CHB (laying &amp; plastering of both sides) 25.48 sq.m

Painting Works 71.69 sq.m

Water Proofing 12.25 sq.m

Gravel Blanket 1.07 cu.m

**PACKAGE 3 – REBOKON CIS: 14,213,268.46****A. CONSTRUCTION OF ONE (1) UNIT 15HP SOLAR PV SUBMERSIBLE PUMPING SYSTEM @ 80M DEPTH**

Mobilization and Demobilization, Temporary Facilities and Construction of Safety and Health Program

Mobilization and Demobilization 1.00 ls

Temporary Facilities

Construction of Worker Shed/Bodega (5x4 meters) 1.00 ls

Construction of Project Billboard 2.00 unit

**B. Construction Safety and Health Program 1.00 ls****C. Well Drilling 80.00 ln.m****D. Well Casing and Well Development**

Well Development 1.00 unit  
 Gravel pack/gravel filter 1.30 cu.m  
 Supply and Delivery of 8" Ø uPVC Pipe x 6m 80.00 ln.m  
 Installation of 8" Ø uPVC Pipe x 6m 80.00 ln.m

E. Pumping Test (Specification of pump to be procured is based on the result of pumping test)  
 Pump Test (using 15hp pump) 1.00 lot

F. Supply, Delivery and Installation of Submersible pump, piping & accessories  
 Supply and Delivery  
 Submersible Pump (15hp) 1.00 set  
 Flow Meter 1.00 assy  
 4" Hydraulic Control Valve 1.00 assy  
 Pipes and Fittings 1.00 lot  
 Installation  
 Installation of Submersible Pump (15hp), flow meter, hydraulic control valve, and Pipes and Fittings 1.00 lot

G. Solar Panel  
 Supply and Delivery  
 PV Modules (Solar Panel 600watts) 32.00 pc  
 MC4 Connector 60.00 pair  
 DC Cable from PV String (1x4mm<sup>2</sup>) 188.00 m  
 AC Cable (8.0mm<sup>2</sup>) 188.00 m  
 2" Ø RSC Conduit 188.00 m  
 Grounding 1.00 lot  
 Installation  
 Installation of PV Modules, Conduits, Cables and Accessories 1.00 lot

H. Inverter & Control Panel  
 Inverter and Control Panel  
 Supply & Delivery 1.00 lot  
 Installation 1.00 lot

I. Mounting Structures  
 Mounting Structure  
 Supply, Delivery and Fabrication 1.00 lot  
 Installation 1.00 lot  
 Structure Excavation (manual) 4.32 cu.m  
 Structure Backfill (manual) 2.43 cu.m  
 Class "A" Concrete 2.16 cu.m  
 Gravel Blanket 23.02 cu.m  
 Reinforcing Steel Bar  
 Furnishing & Stockpiling 333.96 kg  
 Cut, Bend and Place 333.96 kg  
 Painting Works 4.50 sq.m

J. AI Satellite Assisted Monitoring System  
 AI Satellite Assisted Monitoring System  
 Supply & Delivery 1.00 lot  
 Installation 1.00 lot

K. Fertigation System  
 Fertigation System & Accessories  
 Supply & Delivery 1.00 lot  
 Installation 1.00 lot

L. Distribution Pipes  
 HDPE ISO4427 SDR 21 2" dia x 6m  
 Supply & Delivery 83.00 pc  
 Installation 83.00 pc  
 Pipes and fittings 1.00 lot  
 4" Layflat pipe (including end connectors)  
 Supply & Delivery 5.00 roll  
 Installation 5.00 roll  
 3" Layflat pipe (including end connectors)  
 Supply & Delivery 3.00 roll  
 Installation 3.00 roll  
 2" Layflat pipe (including end connectors)  
 Supply & Delivery 2.00 roll  
 Installation 2.00 roll

M. Construction of Perimeter Fence, Stilling pool and NIA Logo  
 Structure Excavation (manual) 13.69 cu.m  
 Structure Backfill (manual) 5.14 cu.m  
 Class "A" Concrete 30.68 cu.m  
 Reinforcing Steel Bar  
 Furnishing & Stockpiling 1,036.61 kg  
 Cut, Bend and Place 1,036.61 kg  
 Masonry Works  
 4" thk. CHB (laying & plastering of both sides) 34.28 sq.m  
 Cyclone Chain Wire 103.05 ln.m

2" Ø G.I. pipe (sch. 40) 175.20 ln.m  
 Painting Works 10.64 sq.m  
 Water Proofing 88.00 sq.m  
 Gravel Blanket 3.31 cu.m  
 Red Oxide Metal Primer 0.27 sq.m

N. Construction of Control House  
 Structure Excavation (manual) 3.22 cu.m  
 Structure Backfill (manual) 1.17 cu.m  
 Class "A" Concrete 4.33 cu.m  
 Reinforcing Steel Bar  
 Furnishing & Stockpiling 414.25 kg  
 Cut, Bend and Place 414.25 kg  
 Masonry Works  
 4" thk. CHB (laying & plastering of both sides) 25.48 sq.m  
 Painting Works 71.69 sq.m  
 Water Proofing 12.25 sq.m  
 Gravel Blanket 1.07 cu.m

PACKAGE 4 – CALAPE PIP: 18,835,027.79

I. Temporary Works, Construction Plant, Mobilization of Construction Equipment and Demobilization 1.00 ls

II. Construction Safety and Health Program 1.00 ls

III. Well Drilling 50.00 ln.m

IV. Well Casing and Well Development  
 Well Development 1.00 unit  
 Gravel pack/gravel filter 1.46 cu.m  
 Supply and Delivery of 8" Ø uPVC Pipe x 3m 50.00 ln.m  
 Installation of 8" Ø uPVC Pipe x 3m 50.00 ln.m

V. Pumping Test (Specification of pump to be procured is based on the result of pumping test)  
 Pump Test (using Submersible Pump 10hp 4" dia) 1.00 lot

VI. Supply, Delivery and Installation of Submersible pump, piping & accessories

Supply and Delivery  
 Submersible Pump & motor (15hp) 1.00 set  
 Pipes and Fittings 1.00 lot  
 Installation  
 Installation of Submersible Pump & motor (15hp), Pipes and Fittings 1.00 lot

VII. Solar Panel

Supply and Delivery  
 PV Modules (Solar Panel 550watts) 30.00 unit  
 PV Modules (Solar Panel 550watts accessories) 30.00 unit  
 Installation  
 Installation of PV Modules and Accessories 1.00 lot

VIII. Solar Inverter, Solar Charge Controller and CCTV Security System

Supply & Delivery  
 Solar Inverter & Solar Charge Controller 1.00 set  
 CCTV Security System 1.00 set  
 Installation  
 Installation of Solar Inverter, Solar Charge Controller & CCTV 1.00 lot

IX. Mounting Structures

Structure Excavation (manual) 58.40 cu.m  
 Structure Backfill (manual) 23.80 cu.m  
 Gravel Blanket (Gravel Bedding Manual) 24.90 cu.m  
 Concrete  
 3000 PSI Plain Concrete 20.00 cu.m  
 Reinforcing Steel Bar (grade 40) 2,738.90 kg  
 Roofing and Metal Works 1.00 ls

X. AI Satellite Assisted Monitoring System

AI Satellite Assisted Monitoring System  
 Supply & Delivery 1.00 lot  
 Installation 1.00 lot

XI. Fertigation System

Supply & Delivery 1.00 lot  
 Installation 1.00 lot

XII. Distribution Pipes

4" Ø HDPE (SDR 17)  
 Supply & Delivery 30.00 pc  
 Installation 30.00 pc  
 Pipes and fittings 1.00 lot  
 1" Ø HDPE (SDR 17)  
 Supply & Delivery 180.00 m



Installation 180.00 m  
Pipes and fittings 1.00 lot

### XIII. Security Fence

Structure Excavation 50.30 cu.m  
Structure Backfill 32.10 cu.m  
Gravel Blanket (Gravel Bedding) 11.10 cu.m  
Concrete  
3000 PSI Plain Concrete 11.90 cu.m  
Reinforcing Steel Bars (grade 40) 1,695.20 kg  
Masonry Works  
4" Concrete hollow blocks 115.50 sq.m  
Mortar and plastering 139.40 sq.m  
Galvanized Interlink Mesh (2" x 2") 310.00 sq.m

### XIV. Water Storage Tank

Structure Excavation (manual) 78.40 cu.m  
Structure Backfill (manual) 12.40 cu.m  
Gravel Blanket (Gravel Bedding) 21.00 cu.m  
Concrete  
3000 PSI Plain Concrete 39.00 cu.m  
Reinforcing Steel Bars (grade 40) 5,191.00 kg  
Roofing and Metal Works 1.00 ls  
Painting Works 74.20 sq.m  
Waterproofing 115.60 sq.m

### XV. Control Room

Structure Excavation 44.10 cu.m  
Structure Backfill 7.30 cu.m  
Gravel Blanket (Gravel Bedding) 23.50 cu.m  
Concrete  
3000 PSI Plain Concrete 4.30 cu.m  
Reinforcing Steel Bars (grade 40) 829.10 kg  
Masonry Works  
4" Concrete Hollow Blocks 70.90 sq.m  
Plastering 117.90 sq.m  
Roofing and Metal Works 1.00 ls  
Doors and Windows 1.00 unit  
Ceiling Works 10.10 sq.m  
Electrical Works 1.00 ls  
Painting Works 85.90 sq.m  
Tile Works 9.60 sq.m  
Plumbing Works 1.00 ls

### XVI. Canalization

Common Excavation 839.30 cu.m  
Common Backfill 755.90 cu.m  
Gravel Blanket (Gravel Bedding) 142.45 cu.m  
Concrete  
2400 PSI Plain Concrete 221.20 cu.m  
Reinforcing Steel Bars (grade 40) 8,681.50 kg

### XVII. Canal Structures

Common Excavation 100.00 cu.m  
Common Backfill 124.20 cu.m  
Gravel Blanket (Gravel Bedding) 13.50 cu.m  
Concrete  
3000 PSI Plain Concrete 40.80 cu.m  
Reinforcing Steel Bars (grade 40) 3,354.90 kg

### PACKAGE 5 – BALUNGISAN PIP: 14,126,151.23

I. Temporary Works, Construction Plant, Mobilization of Construction Equipment and Demobilization 1.00 ls

II. Construction Safety and Health Program 1.00 ls

III. Well Drilling 50.00 ln.m

### IV. Well Casing and Well Development

Well Development 1.00 unit  
Gravel pack/gravel filter 1.46 cu.m  
Supply and Delivery of 8" Ø uPVC Pipe x 3m 50.00 ln.m  
Installation of 8" Ø uPVC Pipe x 3m 50.00 ln.m

### V. Pumping Test (Specification of pump to be procured is based on the result of pumping test)

Pump Test (using Submersible Pump 10hp 4" dia) 1.00 lot

### VI. Supply, Delivery and Installation of Submersible pump, piping & accessories

Supply and Delivery  
Submersible Pump & motor (15hp) 1.00 set  
Pipes and Fittings 1.00 lot  
Installation

Installation of Submersible Pump & motor (15hp), Pipes and Fittings 1.00 lot

#### VII. Solar Panel

Supply and Delivery

PV Modules (Solar Panel 550watts) 30.00 unit

PV Modules (Solar Panel 550watts accessories) 30.00 unit

Installation

Installation of PV Modules and Accessories 1.00 lot

#### VIII. Solar Inverter, Solar Charge Controller and CCTV Security System

Supply & Delivery

Solar Inverter & Solar Charge Controller 1.00 set

CCTV Security System 1.00 set

Installation

Installation of Solar Inverter, Solar Charge Controller & CCTV 1.00 lot

#### IX. Mounting Structures

Structure Excavation (manual) 58.40 cu.m

Structure Backfill (manual) 23.80 cu.m

Gravel Blanket (Gravel Bedding Manual) 24.90 cu.m

Concrete

3000 PSI Plain Concrete 20.00 cu.m

Reinforcing Steel Bar (grade 40) 2,738.90 kg

Roofing and Metal Works 1.00 ls

#### X. AI Satellite Assisted Monitoring System

AI Satellite Assisted Monitoring System

Supply & Delivery 1.00 lot

Installation 1.00 lot

#### XI. Fertigation System

Supply & Delivery 1.00 lot

Installation 1.00 lot

#### XII. Distribution Pipes

4" Ø HDPE (SDR 17)

Supply & Delivery 30.00 pc

Installation 30.00 pc

Pipes and fittings 1.00 lot

1" Ø HDPE (SDR 17)

Supply & Delivery 180.00 m

Installation 180.00 m

Pipes and fittings 1.00 lot

#### XIII. Security Fence

Structure Excavation 50.30 cu.m

Structure Backfill 32.10 cu.m

Gravel Blanket (Gravel Bedding) 11.10 cu.m

Concrete

3000 PSI Plain Concrete 11.90 cu.m

Reinforcing Steel Bars (grade 40) 1,695.20 kg

Masonry Works

4" Concrete hollow blocks 115.50 sq.m

Mortar and plastering 139.40 sq.m

Galvanized Interlink Mesh (2" x 2") 310.00 sq.m

#### XIV. Water Storage Tank

Structure Excavation (manual) 78.40 cu.m

Structure Backfill (manual) 12.40 cu.m

Gravel Blanket (Gravel Bedding) 21.00 cu.m

Concrete

3000 PSI Plain Concrete 39.00 cu.m

Reinforcing Steel Bars (grade 40) 5,191.00 kg

Roofing and Metal Works 1.00 ls

Painting Works 74.20 sq.m

Waterproofing 115.60 sq.m

#### XV. Control Room

Structure Excavation 44.10 cu.m

Structure Backfill 7.30 cu.m

Gravel Blanket (Gravel Bedding) 23.50 cu.m

Concrete

3000 PSI Plain Concrete 4.30 cu.m

Reinforcing Steel Bars (grade 40) 829.10 kg

Masonry Works

4" Concrete Hollow Blocks 70.90 sq.m

Plastering 117.90 sq.m

Roofing and Metal Works 1.00 ls

Doors and Windows 1.00 unit

Ceiling Works 10.10 sq.m

Electrical Works 1.00 ls

Painting Works 85.90 sq.m  
 Tile Works 9.60 sq.m  
 Plumbing Works 1.00 ls

#### XVI. Canalization

Common Excavation 198.50 cu.m  
 Common Backfill 247.90 cu.m  
 Gravel Blanket (Gravel Bedding) 96.00 cu.m  
 Concrete  
 2400 PSI Plain Concrete 82.00 cu.m  
 Reinforcing Steel Bars (grade 40) 2,919.20 kg

#### XVII. Canal Structures

Common Excavation 35.60 cu.m  
 Common Backfill 43.20 cu.m  
 Gravel Blanket (Gravel Bedding) 4.50 cu.m  
 Concrete  
 3000 PSI Plain Concrete 14.20 cu.m  
 Reinforcing Steel Bars (grade 40) 1,135.50 kg

#### PACKAGE 6 – SANITO CIS: 14,126,182.31

I. Temporary Works, Construction Plant, Mobilization of Construction Equipment and Demobilization 1.00 ls

II. Construction Safety and Health Program 1.00 ls

#### III. Establishment of Shallow Tube Well

Well Drilling 50.00 ln.m  
 Well Casing and well development  
 Well Development 1.00 unit  
 Gravel pack/gravel filter 1.30 cu.m  
 Supply & Delivery of uPVC Pipe 6" Ø x 3m 50.00 ln.m  
 Installation of uPVC Pipe 6" Ø x 3m 50.00 ln.m  
 Pump Testing (using 15hp 4" Ø) 1.00 lot

#### IV. Supply, Delivery and Installation of Submersible pump, piping & accessories

Supply and Delivery  
 Submersible Pump & motor (15hp) 1.00 unit  
 Pipes and Fittings 1.00 lot  
 Installation  
 Installation of Submersible Pump & motor (15hp), Pipes and Fittings 1.00 lot

#### V. Solar House

Structure Excavation (manual) 60.40 cu.m  
 Structure Backfill (manual) 25.90 cu.m  
 Gravel Blanket (Gravel Bedding manual) 24.90 cu.m  
 Concrete  
 3000 PSI Plain Concrete 20.00 cu.m  
 Reinforcing Steel Bars (grade 40) 2,738.90 kg  
 Roofing and Metal Works 1.00 ls

#### VI. Solar Panel

Supply and Delivery  
 PV Modules (Solar Panel 550watts) 22.00 unit  
 PV Modules (Solar Panel 550watts accessories) 22.00 unit  
 Installation  
 Installation of PV Modules and Accessories 1.00 lot

#### VII. Solar Inverter, Solar Charge Controller and CCTV Security System

Supply & Delivery  
 Solar Inverter & Solar Charge Controller 1.00 set  
 CCTV Security System 1.00 set  
 Installation  
 Installation of Solar Inverter, Solar Charge Controller & CCTV 1.00 lot

#### VIII. AI Satellite Assisted Monitoring System

AI Satellite Assisted Monitoring System  
 Supply & Delivery 1.00 lot  
 Installation 1.00 lot

#### IX. Fertigation System

Supply & Delivery 1.00 lot  
 Installation 1.00 lot

#### X. Control Room

Structure Excavation 45.21 cu.m  
 Structure Backfill 12.40 cu.m  
 Gravel Blanket (Gravel Bedding) 23.50 cu.m  
 Concrete  
 3000 PSI Plain Concrete 4.30 cu.m  
 Reinforcing Steel Bars (grade 40) 829.10 kg  
 Masonry Works

4" Concrete Hollow Blocks 70.90 sq.m  
Plastering 117.90 sq.m  
Roofing and Metal Works 1.00 ls  
Doors and Windows 1.00 unit  
Ceiling Works 10.10 sq.m  
Electrical Works 1.00 ls  
Painting Works 85.90 sq.m  
Tile Works 9.60 sq.m  
Plumbing Works 1.00 ls

XI. Water Storage Tank  
Structure Excavation (manual) 78.40 cu.m  
Structure Backfill (manual) 12.50 cu.m  
Gravel Blanket (Gravel Bedding) 21.00 cu.m  
Concrete  
3000 PSI Plain Concrete 39.00 cu.m  
Reinforcing Steel Bars (grade 40) 5,191.00 kg  
Roofing and Metal Works 1.00 ls  
Cementitious Waterproofing 151.20 sq.m

XII. Distribution Pipes  
1" Ø HDPE (SDR 17)  
Supply & Delivery 200.00 m  
Installation 200.00 m  
Pipes and fittings 1.00 lot  
4" Ø HDPE (SDR 17)  
Supply & Delivery 37.00 pc  
Installation 37.00 pc  
Pipes and fittings 1.00 lot  
Painting Works 74.20 sq.m

XIII. Security Fence  
Structure Excavation 54.30 cu.m  
Structure Backfill 32.10 cu.m  
Gravel Blanket (Gravel Bedding) 11.10 cu.m  
Concrete  
3000 PSI Plain Concrete 11.90 cu.m  
Reinforcing Steel Bars (grade 40) 1,695.20 kg  
Masonry Works  
4" Concrete hollow blocks 115.50 sq.m  
Mortar and plastering 139.40 sq.m  
Galvanized Interlink Mesh (2" x 2") 310.00 sq.m

XIV. Canalization  
Structure Excavation 127.90 cu.m  
Structure Backfill 63.70 cu.m  
Gravel Blanket (Gravel Bedding) 100.00 cu.m  
Concrete  
2400 PSI Plain Concrete 80.30 cu.m  
Reinforcing Steel Bars (grade 40) 2,858.40 kg

XV. Canal Structures  
Structure Excavation 42.37 cu.m  
Structure Backfill 34.16 cu.m  
Concrete  
3000 PSI Plain Concrete 13.50 cu.m  
Reinforcing Steel Bars (grade 40) 1,158.10 kg

Pre-bid Conference

Date	Time	Venue
13/12/2024	9:00:00 AM	NIA Lot 2, Block 15, Regional Center IX, Balintawak Pagadian City Zamboanga Del Sur

Created by Antonio B. Gujeling  
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