



DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
KAGAWARAN NG KAPALIGIRAN AT LIKAS NA YAMAN



Supplemental/Bid Bulletin No. 1

**PROCUREMENT OF SEAWATER DESALINATION AND FRESHWATER
 FILTRATION SYSTEMS FOR SELECTED BARANGAYS OF DEPARTMENT OF
 ENVIRONMENT AND NATURAL RESOURCES (DENR)**
Bid Ref. No. DENR-CO-2024-049

Approved Budget for the Contract: ₱9,600,000.00

This **Supplemental/Bid Bulletin No. 1** is being issued to address the clarification raised during the Pre-Bid Conference held on 16 August 2024, as well those received via email from the prospective bidder and to amend specifications/provisions in the Bidding Documents for the aforementioned project.

A. Revision to provisions / specifications in the Bidding Documents

SECTION VI. SCHEDULE OF REQUIREMENTS

Schedule of Requirements

Lot	Description	Form	
1	Procurement of Three (3) units Seawater Desalination System	Section VI-A	Schedule of Requirements (Terms of Reference as of 05 August 2024)
2	Procurement of Three (3) units Freshwater Filtration System	Section VI-B	Schedule of Requirements (Terms of Reference as of 05 August 2024)

Revised Schedule of Requirements

Lot	Description	Form	
1	Procurement of Three (3) units Seawater Desalination System	Section VI-A	Revised Schedule of Requirements (Terms of Reference as of 22 August 2024)
2	Procurement of Three (3) units Freshwater Filtration System	Section VI-B	Revised Schedule of Requirements (Terms of Reference as of 22 August 2024)

SECTION VII. TECHNICAL SPECIFICATIONS

Technical Specifications

Lot	Description	Form	
1	Procurement of Three (3) units Seawater Desalination System	Section VII-A	Schedule of Requirements (Terms of Reference as of 05 August 2024)
2	Procurement of Three (3) units Freshwater Filtration System	Section VII-B	Schedule of Requirements (Terms of Reference as of 05 August 2024)

Revised Technical Specifications

Lot	Description	Form	
1	Procurement of Three (3) units Seawater Desalination System	Section VII-A	Revised Technical Specifications
2	Procurement of Three (3) units Freshwater Filtration System	Section VII-B	Revised Technical Specifications

ANNEX I-A – STATEMENT OF SINGLE LARGEST COMPLETE CONTRACT (SLCC)

SLCC

Lot	Description	Form	Similar in Nature
1	Procurement of Three (3) units Seawater Desalination System	Annex I-A	Seawater Desalination System
2	Procurement of Three (3) units Freshwater Filtration System		Freshwater Filtration System

SLCC

Lot	Description	Form	Similar in Nature
1	Procurement of Three (3) units Seawater Desalination System	Annex I-A-1	Seawater Desalination System
2	Procurement of Three (3) units Freshwater Filtration System	Annex I-A-2	Freshwater Filtration System

B. Response to Clarifications

CLARIFICATIONS

RESPONSE

Is the winning bidder required to provide a solar power system?

The winning bidder must provide either a genset or solar power system. Suppliers may also opt to provide both.

If the winning bidder opts not to supply a solar power system, will that not result in a deduction of points?

The Department will select the winning bidder based on the technology of the system. The Department will not base the decision on the availability of the solar component.

CLARIFICATIONS	RESPONSE
Is the winning bidder responsible for constructing a well in communities without one?	In each of the selected communities, there is an available source of water. However, in cases where water cannot be pumped from the wells, the Department will construct one.
Will installation site plans be provided to the winning bidder by the DENR?	There are no site plans available for distribution. However, each barangay has committed to providing an adequate area for construction and installation of the water filtration systems.
Does the DENR prefer a mobile or fixed installation of the system?	The Department has no preference regarding this.
How will the water source be transported to the water filtration site?	The DENR will be responsible for constructing the piping system.
Which of the locations listed in both Terms of Reference documents are small island barangays?	<p>Desalination System Sites:</p> <ol style="list-style-type: none"> 1. Manalipa, Zamboanga del Sur - small island barangay 2. Eastern Cabul-an, Bohol - small island barangay 3. Balogo, Romblon - coastal barangay <p>Freshwater Filtration System Sites:</p> <ol style="list-style-type: none"> 1. Poropandan, Sorsogon - coastal barangay 2. Bangkal, Occidental Mindoro - inland barangay 3. Litayon, Zamboanga Sibugay - small island barangay
Are all of the selected communities required to purchase potable water from other locations?	All of the selected areas do not have a potable water source within their barangay. These communities are required to travel by <i>bangka</i> to other locations in order to purchase water.
Is power supply available in each of the selected barangays and can this be used to run the water filtration systems?	Power supply is available for use in each of the barangays. However, power outages still occur within the areas. As such, suppliers must provide either a genset or solar power system. Suppliers may also opt to provide both.
Will the winning bidder be required to process a building permit before the construction of the water filtration system?	The DENR and/or the selected barangay will arrange this.
Will there be a DENR point person assigned to each site during the process?	The winning bidder will coordinate directly with the LGU. However, the Department will still periodically validate the deliverables of the project.
Within the 60 days to complete the <u>installation</u> and <u>training</u> component of the project, must there be a specific set of days allocated for each segment?	The winning bidder must complete both the installation and training within a period of 60 days. A specific number of days is not required to complete each segment.
What costs will the winning bidder shoulder in terms of the delivery of the equipment?	The delivery of the complete requirements to the DENR Central Office and the selected barangays will be shouldered by the winning bidder.
With regard to the two payment tranches (i.e., 80% and 20%), will the DENR pay the 80% after the winning bidder completes the first three (3) deliverables or will portions of the 80% be paid after completing each deliverable?	The Department will pay the 80% only after the winning bidder completes the first three (3) deliverables.
Do the existing wells in each barangays have pumps?	Majority of the selected barangays rely on the pulley mechanism to draw water from wells. In these locations, the supplier must install the pump system.
For the bidder qualification component, will projects conducted outside of the Philippines be considered valid?	Given the limited number of water filtration projects conducted in the Philippines, the Department will consider projects conducted in other countries as valid experience in the field.
Instead of requiring bidders to have completed a similar contract within the last five (5) years, is it possible for the DENR to consider similar contracts within the last ten (10) years?	The Department will only consider similar contracts within the last five (5) years.
Instead of requiring bidders to present separate contracts for each Lot No. can the DENR consider the submission of one contract for both Lots?	The Department is requiring the submission of separate contracts for each Lot No.

CLARIFICATIONS	RESPONSE
Has it been verified whether water can be pumped from the wells in each location?	For barangays with available wells, the Department has not confirmed the condition of these. However, in situations where water cannot be pumped, the Department will construct a well.
Will a Reverse Osmosis (RO) system be required for the Freshwater Filtration System?	To account for a brackish water source, the winning bidder must provide a standby RO system. As such, the winning bidder must provide an RO membrane that can be bypassed.
Has the DENR determined the turbidity of the water source during heavy rainfall?	At present, there is no data available on the turbidity of the freshwater sources. However, the winning bidder must adhere to the input water standard of ≤ 50 NTU.
How many microns should the filter be?	The Department does not require a specific filter size as long as the winning bidder is able to provide a Desalination System and Ultrafiltration System that meet the output water quality specified in the Terms of Reference document.
Does the DENR possess water quality analysis data for each of the chosen sites?	The Department does not have such data but it can be presumed that the input water for the Desalination System is around 32,000-35,000 ppm whereas the input water for the Freshwater Filtration System exhibits high turbidity and in some cases, salinity.

Bidders are advised to use the following forms and submit together **with all the other required documents** for the submission of bids on **4 September 2024 at 11:00 AM:**

1. **Section VI-Revised Scheduled of Requirements (Terms of Reference as of 21 August 2024)**
2. **Section VII-Revised Technical Specifications**
3. **Annex I-A – Statement of Single Largest Completed Contract**
 - a. Annex I-A-1 for Lot 1 - Procurement of Three (3) units Seawater Desalination System
 - b. Annex I-A-2 for Lot 2 - Procurement of Three (3) units Freshwater Filtration System

Also, please use the **Revised Checklist of Technical and Financial Documents** as a guide/reference.

This Supplemental/Bid Bulletin No. 1 shall form part of the Bidding Documents. Any provisions in the Bidding Documents inconsistent herewith are hereby amended, modified and superseded accordingly.

For guidance and information of all concerned.

Issued this 27th of August 2024 in Quezon City.

Approved by:

*(sgd)***EVELYN G. NILLOSAN**
Chief, Management Division &
Alternate Vice Chairperson, Bids and Awards Committee

Received by:		
_____ (SIGNATURE OVER PRINTED NAME)	_____ (DATE)	_____ NAME OF COMPANY
(PLEASE RETURN OR FAX THIS PAGE ONLY TO THE DENR BAC OFFICE @ 8926-2675)		

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**Section VI-A
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Revised Schedule of Requirements

Lot No. 1 Procurement of Three (3) Units Seawater Desalination System

Instruction to Bidders: Please fill up the form accordingly and sign the Bidder's Undertaking. Failure to conform will result in a rating of "FAILED".

A. TERMS OF REFERENCE as of 22 August 2024



**DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
KAGAWARAN NG KAPALIGIRAN AT LIKAS YAMAN**



TERMS OF REFERENCE As of 22 August 2024

Procurement of Three (3) Units Seawater Desalination System

I. RATIONALE

At present, water security is yet to be attained by countless areas across the Philippines. In these locations, inadequate water supply remains which then forces these communities to obtain water from unsanitary sources or areas of great distance. This is detrimental not only to the livelihood of the population, but to its health as well.

In order to address this prevailing issue, the DENR Water Resources Management Office (WRMO) aims to acquire three (3) seawater desalination units to be delivered and installed in these locations. These units operate such that seawater is converted to potable water. Through this procurement, adequate water supply systems will be established within these communities. Ultimately, this eliminates the associated risks and consequences of drinking unsanitary water and having to travel to other areas for potable water.

II. APPROVED BUDGET FOR THE CONTRACT

The approved ABC for the project is **PHP7,200,000.00** inclusive of all applicable government taxes and service charges.

III. PROJECT DESCRIPTION

This project involves the supply, delivery, and installation of three (3) units seawater desalination system to three (3) barangays:

- A. Manalipa, Zamboanga del Sur
- B. Eastern Cabul-an, Bohol
- C. Litayon, Zamboanga Sibugay

IV. QUALIFICATION OF BIDDER

- A.** Bidders must have at least one (1) year of experience in the supply, delivery, and installation of the system and should provide proof accompanied by

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correspondence from references indicating that such was executed as well as their contactable references.

- B.** Bidders must have the capacity and ability to provide maintenance services and technical support.
- C.** Bidders must be an authorized distributor of the brand.

V. PROJECT DELIVERABLES

A. Supply and Delivery

- 1. **Technical Specifications** (minimum requirements unless specified otherwise)

Water Quality	
Source	<ul style="list-style-type: none"> • Direct intake from the ocean or beach well
Input Water	<ul style="list-style-type: none"> • Source: Non-polluted seawater/brackish water • Temperature: ≤40°C • TDS: ≤36,000 ppm • Free chlorine: <0.1 ppm
Output Water	<ul style="list-style-type: none"> • Flow rate: 250-500 LPH • TDS: ≤600 ppm • Chloride: ≤250 ppm • Quality: Adherent to PNSDW
System	
Parameters	<ul style="list-style-type: none"> • Quantity: 1 unit • Recovery rate: ≥35% • Power consumption <ul style="list-style-type: none"> ○ 110/220V ○ The winning bidder must provide either a genset or solar power system (the quantity of solar power grids must power the unit for a minimum of 6 hrs). The winning bidder may also opt to provide both. • Operation pressure: ≤5.5MPa • Controls: PLC + VFD
Main Components	<ul style="list-style-type: none"> • RO membranes • High pressure pump • Pressure switch • High pressure piping • Low pressure piping <p><i>Note: the winning bidder must install a pump system for wells without one.</i></p>
Additional	<ul style="list-style-type: none"> • Minimum of two (2) storage tanks of at least 1 cubic meter

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Components	<ul style="list-style-type: none">○ Input water storage tank○ Output water storage tank
Housing	<ul style="list-style-type: none">● Material<ul style="list-style-type: none">○ Galvanized iron roof○ Walls made of light material● Size: With a minimum 0.5 meter clearance from the system

2. Submission of **Delivery Receipt (DR)** for the system components, accessories, tools, and consumables.
3. Submission of **Warranty Certificate valid for 1 year** after delivery in favor of the DENR which shall cover the following:
 - 24/7 email, phone, and remote support;
 - Full replacement of defective items and materials including parts and labor, free of charge
 - **Warranty Certificate valid for 2 years** for the high pressure pump;
 - The winning bidder shall not be held liable for defective equipment caused by force majeure.

Supply and delivery of complete requirements must be completed within a period of **90 calendar days**.

B. Project Kick-Off

The **Project Kick-Off**, to be conducted within **14 calendar days** after the complete delivery of requirements, communicates the project goals and objectives to ensure that the winning bidder's project team and the DENR WRMO are clear on their responsibilities during the implementation of the project.

The DENR WRMO shall conduct a project kick-off meeting with the winning bidder to discuss the following fundamental elements:

1. Project Background;
2. Project scope / Deliverables;
3. Project Timeline and/or relevant dates;
4. Risk Management;
5. Roles and Responsibilities;
6. Acknowledgement from both the end-user and winning bidder.

C. Pre-implementation

Submission of **Method of Procedure (MOP)** shall indicate the system installation and training procedure to be followed by the winning bidder. Once approved by the end-user, the installation shall follow.

D. Installation and Training

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The installation and training shall follow what is written in the MOP. Any deviation by the winning bidder's installation team during the execution of the MOP should be coordinated with the end-user. It is the end-user's discretion if such deviations are considered minor or major. Revision of the MOP shall be required on such deviations for another round of review and approval.

Note: The end-user shall ensure that all required documents submitted by the winning bidder for approval shall not exceed three (3) calendar days without approval. If no action on the submitted documents is taken by the end-user within the period above-mentioned, this will not count against the overall deadline period.

1. Installation of all system components, accessories, tools, and consumables.
2. Training of at least three (3) unit operators within each barangay
 - a. The winning bidder shall issue each trainee a **Certificate of Attendance** to verify the completion of training

The installation and training shall be conducted in accordance with the following:

1. The installation and training will be undertaken for a period of **60 calendar days**
2. If any of the foregoing conditions are not met, the count of the testing period shall be restarted until all conditions have been duly satisfied continuously for 60 calendar days.
3. During the installation and training period, the winning bidder shall not be held liable for performance degradation/interruptions that are beyond its control such as malfunction of own equipment.

Following the successful installation and training procedure, the winning bidder shall conduct a water quality test to verify that the output water of the desalination system meets Philippine National Standards for Drinking Water (PNSDW) requirements. The winning bidder shall submit official documentation indicating the obtained results and provide a **Certificate of Potability**.

The winning bidder shall submit an **Implementation Activity Summary Report** that indicates all activities done during the installation and training period, including the water quality test, which shall contain the following fundamental elements:

1. Project Name;
2. Date of Activity;
3. Description of the Activity;
4. Issues / Problems encountered (if any);
5. Solutions Applied (if any);
6. Status of the Activity;
7. Acknowledgement from both the end-user and winning bidder.

E. Project Acceptance - Sign-Off

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Project Acceptance - Sign-Off will be executed after the installation and training period. Within each of the installation sites, the winning bidder shall present to a representative of the DENR WRMO a Project Acceptance - Sign-Off Sheet, containing the following fundamental elements:

1. Statement indicating that the purpose of the paper is to 'signify the end of the project implementation';
Note: This can be worded in any format, but should be deemed communicable, at the very least, in the form of the title.
2. Name of the project;
3. All relevant dates;
4. Key roles in the project;
5. Project deliverables;
6. Acknowledgement from both the end-user and winning bidder.

The DENR WRMO representative will verify if the project deliverables were completed by the winning bidder. Project Acceptance Sign-Off must be completed within a period of **20 calendar days** after installation and training.

VI. PERIOD AND PLACE OF DELIVERY

The winning bidder shall supply and deliver the requirements and submit DR and Warranty Certificate at the DENR Central Office, through Property and Supply Management Division - Supply Management Section (PSMD-SMS) located in the Basement, DENR Main Building, Visayas Avenue, Diliman, Quezon City. Delivery costs to be shouldered by the winning bidder.

Upon checking by the PSMD-SMS if all items have been completely delivered to the DENR Central Office, the winning bidder shall deliver the requirements to the barangays stated in Section III of this document. Delivery costs to be shouldered by the winning bidder. Upon arrival of the requirements in their respective barangays, a designated member of the LGU will receive the equipment.

*Note: Delivery of requirements must be completed within **90 calendar days** from receipt of Notice to Proceed (NTP).*

The Project Kick-Off shall be scheduled within **14 calendar days** after the complete delivery of requirements and submission of supporting documents. Within **60 calendar days** after the Project Kick-Off, installation and training will be at the site agreed upon by the winning bidder and end-user. The project acceptance and sign-off shall be scheduled within **20 calendar days** after the complete installation and training.

VII. TERMS OF PAYMENT

The DENR shall pay the winning bidder for its services. The payments will be made in two (2) tranches as stated in the table below.

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Timeline	Deliverables	Percentage of Total Payment	Required Documents
Within 90 calendar days for receipt of NTP	Supply and delivery of requirements with supporting documents	80%	<ul style="list-style-type: none"> • DR received by PSMD-SMS • Warranty Certificate • Certificate of Inspection and Acceptance issued by the DENR • Project Kick-Off Sheet • MOP • Certificate of Attendance • Certificate of Potability • Implementation Activity Summary Report • Billing Statement or Sales Invoice • Bank Details • Payment Endorsement from DENR WRMO
Within 14 calendar days after the complete delivery of requirements	Conduction of Project Kick-Off		
Within 60 calendar days after the Project Kick-off	Installation and Training		
Within 20 calendar days after Installation and Training	Project Acceptance and Sign-Off	20%	<ul style="list-style-type: none"> • Project Acceptance Sign-Off Sheet • Certificate of Inspection and Acceptance issued by the DENR • Billing Statement or Sales Invoice • Bank Details • Payment Endorsement from DENR WRMO

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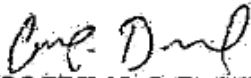
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Prepared by:



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Office of the Secretary
Water Resources Management Office

Approved by:



CARLOS PRIMO C. DAVID
Undersecretary for Water Resources Management Office

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B. OTHER REQUIREMENTS

1. Bidder has no overdue deliveries or unperformed services intended for DENR.
2. Bidder did not participate as a consultant in the preparation of the design or technical specification of the GOODS/SERVICES subject of the bid.

BIDDER'S UNDERTAKING

I/We, the undersigned bidder, having examined the Bidding Documents including Bid Bulletins, as applicable, hereby BID to (supply/deliver/perform/comply) the above Terms of Reference

I/We undertake, if our bid is accepted, to deliver the goods/services in accordance with the terms and conditions contained in the bid documents, including the posting of the required performance security within ten (10) calendar days from receipt of the Notice of Award.

Until a formal contract/order confirmation is prepared and signed, this Bid is binding on us.

Name of Company (in print)

Signature of Company Authorized Representative

Name & Designation (in print)

Date

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Section VI-B- Revised Schedule of Requirements

Lot No. 2 Procurement of Three (3) Units Freshwater Filtration System

Instruction to Bidders: Please fill up the form accordingly and sign the Bidder's Undertaking. Failure to conform will result in a rating of "FAILED".

A. TERMS OF REFERENCE as of 22 August 2024



**DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
KAGAWARAN NG KAPALIGIRAN AT LIKAS YAMAN**



TERMS OF REFERENCE As of 22 August 2024

Procurement of Three (3) Units Freshwater Filtration System

I. RATIONALE

At present, water security is yet to be attained by countless areas across the Philippines. In these locations, inadequate water supply remains which then forces these communities to obtain water from unsanitary sources or areas of great distance. This is detrimental not only to the livelihood of the population, but to its health as well.

In order to address this prevailing issue, the DENR Water Resources Management Office (WRMO) aims to acquire three (3) freshwater filtration units to be delivered and installed in these locations. These units operate such that freshwater is converted to potable water. Through this procurement, adequate water supply systems will be established within these communities. Ultimately, this eliminates the associated risks and consequences of drinking unsanitary water and having to travel to other areas for potable water.

II. APPROVED BUDGET FOR THE CONTRACT

The approved ABC for the project is **PHP2,400,000.00** inclusive of all applicable government taxes and service charges.

III. PROJECT DESCRIPTION

This project involves the supply, delivery, and installation of three (3) units freshwater filtration system to three (3) barangays:

- A. Poropandan, Matnog
- B. Bangkal, Occidental Mindoro
- C. Balogo, Romblon

IV. QUALIFICATION OF BIDDER

- A.** Bidders must have at least one (1) year of experience in the supply, delivery, and installation of the system and should provide proof accompanied by

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correspondence from references indicating that such was executed as well as their contactable references.

- B.** Bidders must have the capacity and ability to provide maintenance services and technical support.
- C.** Bidders must be an authorized distributor of the brand.

V. PROJECT DELIVERABLES

A. Supply and Delivery

- 1. **Technical Specifications** (minimum requirements unless specified otherwise)

Water Quality	
Source	<ul style="list-style-type: none"> • Existing shallow well, deep well, surface water, or rainwater
Input Water	<ul style="list-style-type: none"> • Source: Shallow well, Deep well, Surface water, Rainwater <ul style="list-style-type: none"> ○ <i>Note: the winning bidder must also account for brackish water</i> • Temperature: ≤40°C • TDS: <500 ppm • Turbidity: ≤50 NTU
Output Water	<ul style="list-style-type: none"> • Flow rate: 250-500 LPH • TDS: ≤300 ppm • Turbidity: <1 NTU • Quality: Adherent to PNSDW
System	
Parameters	<ul style="list-style-type: none"> • Quantity: 1 unit • Recovery rate: ≥35% • Power consumption <ul style="list-style-type: none"> ○ 110/220V ○ The winning bidder must provide either a genset or solar power system (the quantity of solar power grids must power the unit for a minimum of 6 hrs). The winning bidder may also opt to provide both.
Main Components	<ul style="list-style-type: none"> • Raw water pump • Pre-treatment system • Pre-filter • RO system • Product pump distribution <p><i>Note: the winning bidder must install a pump system for wells without one.</i></p>

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Additional Components	<ul style="list-style-type: none">• Minimum of two (2) storage tanks of at least 1 cubic meter<ul style="list-style-type: none">○ Input water storage tank○ Output water storage tank
Housing	<ul style="list-style-type: none">• Material<ul style="list-style-type: none">○ Galvanized iron roof○ Walls made of light material• Size: With a minimum 0.5 meter clearance from the system

2. Submission of **Delivery Receipt (DR)** for the system components, accessories, tools, and consumables.
3. Submission of **Warranty Certificate valid for 1 year** after delivery in favor of the DENR which shall cover the following:
 - 24/7 email, phone, and remote support;
 - Full replacement of defective items and materials including parts and labor, free of charge;
 - The winning bidder shall not be held liable for defective equipment caused by force majeure.

Supply and delivery of complete requirements must be completed within a period of **90 calendar days**.

B. Project Kick-Off

The **Project Kick-Off**, to be conducted within **14 calendar days** after the complete delivery of requirements, communicates the project goals and objectives to ensure that the winning bidder's project team and the DENR WRMO are clear on their responsibilities during the implementation of the project.

The DENR WRMO shall conduct a project kick-off meeting with the winning bidder to discuss the following fundamental elements:

1. Project Background;
2. Project scope / Deliverables;
3. Project Timeline and/or relevant dates;
4. Risk Management;
5. Roles and Responsibilities;
6. Acknowledgement from both the end-user and winning bidder.

C. Pre-implementation

Submission of **Method of Procedure (MOP)** shall indicate the system installation procedure to be followed by the winning bidder. Once approved by the end-user, the installation shall follow.

D. Installation and Training

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The installation and training shall follow what is written in the MOP. Any deviation by the winning bidder's installation team during the execution of the MOP should be coordinated with the end-user. It is the end-user's discretion if such deviations are considered minor or major. Revision of the MOP shall be required on such deviations for another round of review and approval.

Note: The end-user shall ensure that all required documents submitted by the winning bidder for approval shall not exceed three (3) calendar days without approval. If no action on the submitted documents is taken by the end-user within the period above-mentioned, this will not count against the overall deadline period.

1. Installation of all system components, accessories, tools, and consumables.
2. Training of at least three (3) unit operators within each barangay.
 - a. The winning bidder shall issue each trainee a **Certificate of Attendance** to verify the completion of training

The installation and training shall be conducted in accordance with the following:

1. The installation and training will be undertaken for a period of **60 calendar days**
2. If any of the foregoing conditions are not met, the count of the testing period shall be restarted until all conditions have been duly satisfied continuously for 60 calendar days.
3. During the installation and training period, the winning bidder shall not be held liable for performance degradation/interruptions that are beyond its control such as malfunction of own equipment.

Following the successful installation and training procedure, the winning bidder shall conduct a water quality test to verify that the output water of the desalination system meets Philippine National Standards for Drinking Water (PNSDW) requirements. The winning bidder shall submit official documentation indicating the obtained results and provide a **Certificate of Potability**.

The winning bidder shall submit an **Implementation Activity Summary Report** that indicates all activities done during the installation and training period which shall contain the following fundamental elements:

1. Project Name;
2. Date of Activity;
3. Description of the Activity;
4. Issues / Problems encountered (if any);
5. Solutions Applied (if any);
6. Status of the Activity;
7. Acknowledgement from both the end-user and winning bidder.

E. Project Acceptance - Sign-Off

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Project Acceptance - Sign-Off will be executed after the installation and training period. Within each of the installation sites, the winning bidder shall present to a representative of the DENR WRMO a Project Acceptance - Sign-Off Sheet, containing the following fundamental elements:

The winning bidder shall submit a Project Acceptance - Sign-Off Sheet, containing the following fundamental elements:

1. Statement indicating that the purpose of the paper is to 'signify the end of the project implementation';
Note: This can be worded in any format, but should be deemed communicable, at the very least, in the form of the title.
2. Name of the project;
3. All relevant dates;
4. Key roles in the project;
5. Project deliverables;
6. Acknowledgement from both the end-user and winning bidder.

The DENR WRMO representative will verify if the project deliverables were completed by the winning bidder. Project Acceptance Sign-Off must be completed within a period of **20 calendar days** after installation and training.

VI. PERIOD AND PLACE OF DELIVERY

The winning bidder shall supply and deliver the requirements and submit DR and Warranty Certificate at the DENR Central Office, through Property and Supply Management Division - Supply Management Section (PSMD-SMS) located in the Basement, DENR Main Building, Visayas Avenue, Diliman, Quezon City. Delivery costs to be shouldered by the winning bidder.

Upon checking by the PSMD-SMS if all items have been completely delivered to the DENR Central Office, the winning bidder shall deliver the requirements to the barangays stated in Section III of this document. Delivery costs to be shouldered by the winning bidder. Upon arrival of the requirements in their respective barangays, a designated member of the LGU will receive the equipment.

*Note: Delivery of requirements must be completed within **90 calendar days** from receipt of Notice to Proceed (NTP).*

The Project Kick-Off shall be scheduled within **14 calendar days** after the complete delivery of requirements and submission of supporting documents. Within **60 calendar days** after the Project Kick-Off, installation and training will be at the site agreed upon by the winning bidder and end-user. The project acceptance and sign-off shall be scheduled within **20 calendar days** after the complete installation and training.

VII. TERMS OF PAYMENT

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**Section VI-B
(Page 6 of 8)**


The DENR shall pay the winning bidder for its services. The payments will be made in two (2) tranches as stated in the table below.

Timeline	Deliverables	Percentage of Total Payment	Required Documents
Within 90 calendar days for receipt of NTP	Supply and delivery of requirements with supporting documents	80%	<ul style="list-style-type: none"> • DR received by PSMD-SMS • Warranty Certificate • Certificate of Inspection and Acceptance issued by the DENR • Project Kick-Off Sheet • MOP • Certificate of Attendance • Certificate of Potability • Implementation Activity Summary Report • Billing Statement or Sales Invoice • Bank Details • Payment Endorsement from DENR WRMO
Within 14 calendar days after the complete delivery of requirements	Conduction of Project Kick-Off		
Within 60 calendar days after the Project Kick-off	Installation and Training		
Within 20 calendar days after Installation and Training	Project Acceptance and Sign-Off	20%	<ul style="list-style-type: none"> • Project Acceptance Sign-Off Sheet • Certificate of Inspection and Acceptance issued by the DENR • Billing Statement or Sales Invoice • Bank Details • Payment Endorsement from DENR WRMO

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**Section VI-B
(Page 7 of 8)**

Prepared by:


JULIANNA ANGELA L. SAN JOSE
Project Monitoring and Evaluation Officer
Office of the Secretary
Water Resources Management Office

Approved by:


CARLOS PRIMO C. DAVID
Undersecretary for Water Resources Management Office

Visayas Avenue, Diliman, Quezon City 1100, Philippines
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**Section VI-B
(Page 8 of 8)**

B. OTHER REQUIREMENTS

1. Bidder has no overdue deliveries or unperformed services intended for DENR.
2. Bidder did not participate as a consultant in the preparation of the design or technical specification of the GOODS/SERVICES subject of the bid.

BIDDER'S UNDERTAKING

I/We, the undersigned bidder, having examined the Bidding Documents including Bid Bulletins, as applicable, hereby BID to (supply/deliver/perform/comply) the above Terms of Reference

I/We undertake, if our bid is accepted, to deliver the goods/services in accordance with the terms and conditions contained in the bid documents, including the posting of the required performance security within ten (10) calendar days from receipt of the Notice of Award.

Until a formal contract/order confirmation is prepared and signed, this Bid is binding on us.

Name of Company (in print)

Signature of Company Authorized Representative

Name & Designation (in print)

Date

PLEASE USE THIS BID FORM. DO NOT RETYPE OR ALTER.

**Section VII-A
(page 1 of 2)**

Revised Technical Specifications

Lot No. 1 Procurement of Three (3) Units Seawater Desalination System

Instruction to Bidders: **Please fill up the form accordingly and sign the Bidder's Undertaking. Failure to conform will result in a rating of "FAILED".**

Minimum Technical Specifications unless otherwise specified	*Bidder's Statement of Compliance																																
Water Quality																																	
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Source</td> <td style="width: 5%;">:</td> <td colspan="2">Direct intake from the ocean or beach well</td> </tr> <tr> <td rowspan="4" style="vertical-align: top;">Input Water</td> <td rowspan="4" style="vertical-align: top;">:</td> <td style="width: 15%;">Source</td> <td style="width: 5%;">:</td> <td>Non-polluted seawater/brackish water</td> </tr> <tr> <td>Temperature:</td> <td>:</td> <td>≤40 °C</td> </tr> <tr> <td>TDS</td> <td>:</td> <td>≤36,000 ppm</td> </tr> <tr> <td>Free chlorine</td> <td>:</td> <td><0.1 ppm</td> </tr> <tr> <td rowspan="4" style="vertical-align: top;">Output Water</td> <td rowspan="4" style="vertical-align: top;">:</td> <td>Flow Rate</td> <td>:</td> <td>250-500 LPH</td> </tr> <tr> <td>TDS</td> <td>:</td> <td>≤600 ppm</td> </tr> <tr> <td>Chloride</td> <td>:</td> <td>≤250 ppm</td> </tr> <tr> <td>Quality</td> <td>:</td> <td>Adherent to PNSDW</td> </tr> </table>	Source	:	Direct intake from the ocean or beach well		Input Water	:	Source	:	Non-polluted seawater/brackish water	Temperature:	:	≤40 °C	TDS	:	≤36,000 ppm	Free chlorine	:	<0.1 ppm	Output Water	:	Flow Rate	:	250-500 LPH	TDS	:	≤600 ppm	Chloride	:	≤250 ppm	Quality	:	Adherent to PNSDW	
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**Section VII-A
(page 2 of 2)**

**PLEASE INDICATE BRAND AND MODEL NO. OF THE ITEM BEING
OFFERED IN THE SPACE PROVIDED**

I hereby certify to comply with the above Technical Specifications.

Name of Company (in print)

Signature of Company Authorized Representative

Name & Designation (in print)

Date

**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 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. 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 Bidders 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 provisions of ITB a(ii) and/or GCC Clause (iii)*

PLEASE USE THIS BID FORM. DO NOT RETYPE OR ALTER.

**Section VII-B
(page 1 of 2)**

Revised Technical Specifications

Lot No. 2 Procurement of Three (3) Units Freshwater Filtration System

Instruction to Bidders: **Please fill up the form accordingly and sign the Bidder's Undertaking. Failure to conform will result in a rating of "FAILED".**

Minimum Technical Specifications unless otherwise specified		*Bidder's Statement of Compliance
Water Quality		
Source	:	Existing shallow well or surface water
Input Water	:	Source : Shallow well, Surface Water, Rainwater
		Note: the winning bidder must also account for brackish water
	Temperature:	: ≤40 °C
	TDS	: <500 ppm
		Turbidity : ≤50 NTU
Output Water	:	Flow Rate : 250-500 LPH
		TDS : ≤300 ppm
		Turbidity : < 1 NTU
		Quality : Adherent to PNSDW
System		
Parameters	:	Quantity : 1 unit
		Recovery rate : ≥35%
		Power consumption : <ul style="list-style-type: none"> • 110/220V • The winning bidder must provide either a genset or solar power system (the quantity of solar power grids must power the unit for a minimum of 6 hrs). The winning bidder may also opt to provide both.
Main Components	:	Raw water pump
	:	Pre-treatment system
	:	Pre-filter
	:	RO system
	:	Product pump distribution
		Note: The winning bidder must install a pump system for wells without one.
Additional Components	:	Minimum of two (2) storage tanks of at least 1 cubic meter <ul style="list-style-type: none"> • Input water storage tank • Output water storage tank
Housing	:	Material : <ul style="list-style-type: none"> • Galvanized iron roof • Walls made of light material
		Size : With a minimum 0.5 meter clearance from the system

PLEASE USE THIS BID FORM. DO NOT RETYPE OR ALTER.

**Section VII-B
(page 2 of 2)**

**PLEASE INDICATE BRAND AND MODEL NO. OF THE ITEM
BEING OFFERED IN THE SPACE PROVIDED**

I hereby certify to comply with the above Technical Specifications.

Name of Company (in print)

Signature of Company Authorized Representative

Name & Designation (in print)

Date

**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 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. 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 Bidders 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 provisions of ITB a(ii) and/or GCC Clause (iii)*

(Bidder's Company Letterhead)

**Lot No. 1 Procurement of Three (3) Units Seawater Desalination System
Approved Budget for the Contract – ₱7,200,000.00**

**Statement of Single Largest Completed Contract of Similar Nature within the
Last Five (5) Years from date of submission and receipt of bids**

Single completed contract of similar nature amounting to at least fifty percent (50%) of the ABC;

NAME OF CLIENT	NAME OF THE CONTRACT	DATE OF THE CONTRACT	KINDS OF GOODS	AMOUNT OF CONTRACT	DATE OF DELIVERY	SALES INVOICE/OFFICIAL RECEIPT NO./COLLECTION RECEIPT NO.& DATE OR END USER'S ACCEPTANCE DATE (Please attach)

CERTIFIED CORRECT:

Name & Signature of Authorized Representative

Position

Date

(Bidder's Company Letterhead)

**Lot No. 2 Procurement of Three (3) Units Freshwater Filtration System
Approved Budget for the Contract – ₱2,400,000.00**

**Statement of Single Largest Completed Contract of Similar Nature within the
Last Five (5) Years from date of submission and receipt of bids**

Single completed contract of similar nature amounting to at least fifty percent (50%) of the ABC;

NAME OF CLIENT	NAME OF THE CONTRACT	DATE OF THE CONTRACT	KINDS OF GOODS	AMOUNT OF CONTRACT	DATE OF DELIVERY	SALES INVOICE/OFFICIAL RECEIPT NO./COLLECTION RECEIPT NO.& DATE OR END USER'S ACCEPTANCE DATE (Please attach)

CERTIFIED CORRECT:

Name & Signature of Authorized Representative

Position

Date

DENR BIDS AND AWARDS COMMITTEE
REVISED CHECKLIST OF TECHNICAL AND FINANCIAL DOCUMENTS

Project: PROCUREMENT OF SEAWATER DESALINATION AND FRESHWATER FILTRATION SYSTEMS FOR SELECTED BARANGAYS OF DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES (DENR)

Bid Ref. No. DENR-CO-2024-049

APPROVED BUDGET FOR THE CONTRACT: P9,600,000.00

Please check the lot being bid	Lot No.	Description	ABC (P)
<input type="checkbox"/>	1	Procurement of Three (3) Units Seawater Desalination System	7,200,000.00
<input type="checkbox"/>	2	Procurement of Three (3) Units Freshwater Filtration System	2,400,000.00
TOTAL			9,600,000.00

ENVELOPE 1: TECHNICAL COMPONENT

CLASS "A" DOCUMENTS

A. LEGAL DOCUMENTS

- (a) Valid and current **Certificate of PhilGEPS Registration (Platinum Membership)** (all pages) *in accordance with Section 8.5.2 of the IRR* (pursuant to GPPB Resolution No. 15-2021, dated 14 October 2021);

B. TECHNICAL DOCUMENTS

- (b) Statement 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 (per **Annex I**);

- (c) Statement of the Bidder's Single Largest Completed Contract (SLCC) of similar nature within the last five (5) years from date of submission and receipt of bids equivalent to at least fifty (50%) of the total ABC (per **Annex I-A**)

Lot	Description	Form	Similar in Nature
1	Procurement of Three (3) units Seawater Desalination System	Annex I-A-1	Seawater Desalination System
2	Procurement of Three (3) units Freshwater Filtration System	Annex I-A-2	Freshwater Filtration System

Any of the following documents must be submitted/attached corresponding to listed completed largest contracts per Annex I-A:

- i) Copy of End User's Acceptance; or
- ii) Copy of Official Receipt/s or Sales Invoice or Collection Receipt/s

(d) Original Bid Security must be issued in favor of the **DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES-CENTRAL OFFICE (DENR-CO)** (must be valid for at least 120 calendar days from the date of bid opening); any one of the following forms:

Lot No.	Description	Project ABC (P)	Bid Security: Cash, Cashier's/ Manager's Check, Bank Draft / Guarantee, Irrevocable Letter of Credit (2%) (P)	Bid Security: Surety Bond (5%) (P)	Original Bid Securing Declaration
1	Procurement of Three (3) Units Seawater Desalination System	7,200,000.00	144,000.00	360,000.00	No required Amount
2	Procurement of Three (3) Units Freshwater Filtration System	2,400,000.00	48,000.00	120,000.00	
TOTAL		9,600,000.00	192,000.00	480,000.00	

1. Bid Securing Declaration per **Annex II**;
2. The Cashier's/Manager's Check shall be issued by a Local, Universal or Commercial Bank
3. The Bank Draft/Guarantee or Irrevocable Letter of Credit shall be issued by a Local Universal or Commercial Bank; or
4. Should bidder opt to submit a Surety Bond as Bid Security, the surety bond must be callable on demand and must be issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such bond. Together with the surety bond, a certification from Insurance Commission must be submitted by the bidder which must state that the surety or insurance company is specifically authorized to issue surety bonds.
5. For submission of Bank Draft/Guarantee or Irrevocable Letter of Credit or Surety Bond, the following must be stated/specified in the Bid Security pursuant to Section III, ITB Clause 18.5, to wit:

The following are the grounds for forfeiture of Bid Security



▪ **IF A BIDDER:**

- a) Withdraws its bid during the period of bid validity.
- b) Does not accept the correction of errors pursuant to Section 32.2.1 of the IRR of RA 9184.
- c) Fails to submit the Post Qualification requirements within the prescribed period or a finding against their veracity thereof.
- d) Submission of eligibility requirements containing false information or falsified documents.
- e) Submission of bids that contain false information or falsified documents, or the concealment of such information in the bids in order to influence the outcome of eligibility screening or any other stage of the public bidding.
- f) Allowing the use of one's name, or using the name of another for purposes of public bidding.
- g) Withdrawal of a bid, or refusal to accept an award, or enter into contract with the Government without justifiable cause, after the Bidder had been adjudged as having submitted the Lowest Calculated and Responsive Bid.
- h) Refusal or failure to post the required performance security within the prescribed time.
- i) Refusal to clarify or validate in writing its bid during post-qualification within a period of seven (7) calendar days from receipt of the request for clarification.
- j) Any documented unsolicited attempt by a bidder to unduly influence the outcome of the bidding in his favor.
- k) Failure of the potential joint venture partners to enter into the joint venture after the bid is declared as successful.
- l) All other acts that tend to defeat the purpose of the competitive bidding, such as habitually withdrawing from bidding, submitting late Bids or patently insufficient bid, for at least three (3) times within a year, except for valid reasons.

▪ **IF THE SUCCESSFUL BIDDER:**

- a) fails to sign the contract in accordance with Section 40 of the Revised IRR of RA 9184; or
- b) fails to furnish performance security in accordance with Section 40 of the Revised IRR of RA 9184.

(e) Conformity with Schedule of Requirements and Technical Specifications, as enumerated and specified in **Sections VI and VII** of the Bidding Documents.

Lot No.	Description	Form	Description
1	Procurement of Three (3) Units Seawater Desalination System	Section VI-A	Revised Schedule of Requirements
		Section VII-A	Revised Technical Specifications
2	Procurement of Three (3) Units Freshwater Filtration System	Section VI-B	Revised Schedule of Requirements
		Section VII-B	Revised Technical Specifications

(f) Original duly signed **Omnibus Sworn Statement** in accordance with Section 25.3 of the IRR of RA 9184 and using the prescribed form attached as **Annex III** with attached **Proof of Authority of the bidder's authorized representative/s:**

- i. **FOR SOLE PROPRIETORSHIP (IF OWNER OPTS TO APPOINT A REPRESENTATIVE):**
Notarized Special Power of Attorney.
- ii. **FOR CORPORATIONS, COOPERATIVE OR THE MEMBERS OF THE JOINT VENTURE:**
Notarized Secretary's Certificate evidencing the authority of the designated representative/s.

Note: *Should there be more than one (1) appointed authorized representatives, use the word "any of the following" or "**OR**", otherwise, all authorized representatives must sign/initial the bid submission.*

IN THE CASE OF UNINCORPORATED JOINT VENTURE: Each member shall submit a separate Special Power of Attorney and/or Secretary's Certificate evidencing the authority of the designated representative/s.

C. FINANCIAL DOCUMENTS

(g) Net Financial Contracting Capacity (NFCC) computation, in accordance with ITB Clause 5.5, (per **Annex IV**).

The NFCC computation must at least be equal to the ABC of this project. The detailed computation using the required formula must be provided.

OR

Original copy of Committed Line of Credit (CLC) per **Annex IV-A** issued by a Local Universal or Local Commercial Bank at least equal to ten percent (10%) of the ABC of this project.

In case of Joint Venture, the partner responsible to submit the NFCC shall likewise submit the Statement of all its ongoing contracts and the Latest Audited Financial Statements.

Class “B” Document: (For Joint Venture)

If applicable, For Joint Ventures, Bidder to submit either:

- (i) Copy of the JOINT VENTURE AGREEMENT (JVA) in case the joint venture is already in existence, or
 - (ii) Copy of Protocol/Undertaking of Agreement to Enter into Joint Venture (**Annex V**) signed by 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 and must be in accordance with Section 23.1 (b) of the IRR
In case the joint venture is not yet in existence, the submission of a valid JVA shall be within ten (10) calendar days from receipt by the bidder of the notice from the BAC that the bidder is the Lowest Calculated and Responsive Bid [Sec 37.1.4 (a) (i)]
- (h) **The JVA or the Protocol/Undertaking of Agreement to Enter into Joint Venture (per Annex V) must include/specify the company/partner and the name of the office designated as authorized representative of the Joint Venture.**

ENVELOPE 2: FINANCIAL COMPONENT

- (a) Completed and signed Financial Bid Form. Bidder must use, accomplish and submit Bid Form (**Annex VI**);

Lot No.	Form
1	Annex VI-1
2	Annex VI-2

and

- (b) Original of duly signed and accomplished Price Schedule(s) (**Annex VI-A or VI-B**).

The ABC is inclusive of VAT. Any proposal with a financial component exceeding the ABC shall not be accepted.