



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



Supplemental/Bid Bulletin No. 1

**PROCUREMENT OF GEO-RESISTIVITY METER FOR THE WATER RESOURCES
MANAGEMENT OFFICE (WRMO) OF THE DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES-CENTRAL OFFICE (DENR-CO)
Bid Ref. No. DENR-CO-2024-043**

Approved Budget for the Contract: P4,500,000.00

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 III. BID DATA SHEET	
20.2 Post Qualification g) PO/Contract, or equivalent document showing that the bidder has at least five (5) years' experience in supply and delivery of Geo- resistivity Meter and accessories and said documents must be dated not later than 2016, along with contactable details.	20.2 Post Qualification g) PO/Contract, or equivalent document showing that the bidder has at least five (5) years' experience in supply and delivery of Geo- resistivity Meter and accessories and said documents must be dated not later than 2019 , along with contactable details.
SECTION VI. SCHEDULE OF REQUIREMENTS	
Schedule of Requirements (Terms of Reference as of 05 August 2024)	Revised Schedule of Requirements (Terms of Reference as of 16 August 2024)
SECTION VII. TECHNICAL SPECIFICATIONS	
Technical Specifications	Revised Technical Specifications
B. Response to Clarifications	
CLARIFICATION	RESPONSE
On technical specifications of the transmitter, can we request that the minimum power be lowered to 200W?	Request granted.
On general specifications of the geo-resistivity meter, can we specifically exclude the line "once it reaches more than 70°C, it automatically shuts off"?	Request denied.
Clarification on why there is a need to submit Method of Procedure (MOP) if there is no required installation?	The MOP shall contain the training procedure or design to be followed by the winning bidder.
Clarification on the Testing Location, should the site be within or outside Metro Manila?	The site can be located within the Metro Manila, provided there is an available area to test the instrument. The survey line should be at least 181 meters to ensure deeper penetration for accurate interpretation.

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 8:30 AM**:

- 1. Section VI-Revised Scheduled of Requirements (Terms of Reference as of 16 August 2024)**
- 2. Section VII-Revised Technical Specifications**

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 27nd 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)		

Section VI - Revised Schedule of Requirements

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 16 August 2024



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



TERMS OF REFERENCE As of 16 August 2024

Procurement of Geo-resistivity Meter

I. RATIONALE

Water scarcity poses significant and widespread challenges across various regions in the Philippines, especially during the dry season. These issues affect food security, domestic water supply, and power generation.

In order to address this prevailing issue, the DENR Water Resources Management Office (WRMO) intends to procure a geo-resistivity meter. The instrument plays a vital role in groundwater exploration by conducting detailed surveys to locate and characterize potential aquifers that can be utilized as a viable water resource. It also facilitates the precise mapping of subsurface lithological units and hydrogeological features. The acquisition of this instrument is then primarily expected to support the WRMO's efforts in sustainable water resource management.

II. APPROVED BUDGET FOR THE CONTRACT (ABC)

The total ABC for the project is **FOUR MILLION FIVE HUNDRED THOUSAND PESOS (PHP4,500,000.00)** inclusive of all applicable government taxes and service charges.

III. PROJECT DESCRIPTION

This project involves the supply, delivery, and commissioning of one (1) unit of geo-resistivity meter.

1. Delivery of Geo-resistivity Meter with the following general specifications (minimum specifications unless otherwise specified):

Geo-resistivity Meter	
GENERAL	<ul style="list-style-type: none">• LCD display• Operating temperature: -20 °C to +70 °C (once it reaches more than 70°C, it automatically shuts off)• Power supply (battery): internal 12V/7.2 Ah rechargeable External 12V

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	<ul style="list-style-type: none"> ● Automatic computation of apparent resistivity ● 2 simultaneous channels ● Internal memory for data storage <ul style="list-style-type: none"> ○ Not less than 44,800 readings ● Cable and software for data transfer ● Software for data processing ● User's manual ● GPS input for coordinates ● Power: 12 V, 8 Ah internal battery, built-in charger and 12-18V DC external battery ● With safety emergency switch ● 1x transport case ● 1x set of accessories for standard surveys including: <ul style="list-style-type: none"> ○ 2x reels 500 m cable ○ 2x reels 250 m cable ○ 4x metallic stakes/steel electrodes (Length: 60 cm) ○ Set of 4 stainless alligator clips that can clamp a 3/4" steel electrodes ○ 4x meter connection cables ● 2x sledgehammer ● 3x two-way radios ● 1x analog multi-tester
TRANSMITTER	<ul style="list-style-type: none"> ● Minimum power: 200 W or higher ● Maximum voltage: 600 V on automatic or 1200 V on manual ● Maximum current: 2.5 A ● Precision: 0.2% ● Pulse duration: 0.25s, 0.5s, 1s, 2s, 4s, 8s
RECEIVER	<ul style="list-style-type: none"> ● 2 simultaneous reception channels ● Input impedance: 100 Mohm ● Minimum input voltage: 15 V ● Input overvoltage protection ● 50/60 Hz power line rejection ● Voltage measurement specifications: <ul style="list-style-type: none"> ○ Resolution: 1 μV after stacking ○ Accuracy: standard 0.2% ○ Max 1% from -20 °C to 70 °C

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IV. QUALIFICATION OF BIDDER

- a. Must have a minimum of five (5) years of experience in executing similar contracts involving the supply, delivery, commissioning, and configuration of geo-resistivity meters and accessories. Proof of documents such as contracts, purchase orders (POs), or equivalent documents dated no later than 2016 must be submitted, along with active contact details.
- b. Bidders must provide an authenticated exclusive distributor certificate from the manufacturer. Attach a certificate for compliance.
- c. The winning bidder must have the capacity and ability to provide technical support and maintenance services.

V. TRAINING

The winning bidder shall conduct on-site training on the operation of the equipment for at least three (3) staff members from the DENR Water Resources Management Office (WRMO), five (5) days after the completion of delivery and commissioning of the units. The training program will be conducted over a period of four (4) days, with the first day allocated to data acquisition and the subsequent three (3) days devoted to data interpretation and analysis. The bidder must issue corresponding certificates to the attendees. All expenses related to the training shall be covered by the winning bidder.

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

The training shall follow what is written in the MOP. Any deviation by the winning bidder's 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.

VI. DELIVERY PERIOD AND PLACE OF DELIVERY

The winning bidder shall supply and deliver the equipment and the geo-resistivity accessories to the site located at the DENR Central Office, Visayas Avenue, Diliman, Quezon City. The Property and Supply Management Division - Supply Management Section (PSMD-SMS), located at the basement of DENR Main Building, Visayas Avenue, Diliman, Quezon City, will oversee the delivery of the geo-resistivity meter accessories on-site, in coordination with the representatives from the Water Resources Management Office. Delivery, commissioning, and configuration must be completed within sixty-five (65) calendar days from the receipt of the Notice to Proceed (NTP).

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VII. WARRANTY

The winning bidder must provide a warranty certificate in favor of DENR-WRMO, which shall remain valid for one (1) year from the date of the Certificate of Acceptance issued by DENR-WRMO. The warranty shall cover the full replacement and/or repair of any defective units and accessories, including parts, free of charge.

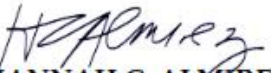
VIII. TERMS OF PAYMENT


TIMELINES	DELIVERABLES	PERCENTAGE AMOUNT OF CONTRACT PRICE BE RELEASED AS PAYMENTS	DOCUMENTARY REQUIREMENTS
<ul style="list-style-type: none">• Within sixty-five (65) calendar days from receipt of NTP	<ul style="list-style-type: none">• Submission of MOP• Supply, delivery, and commissioning of geo-resistivity meter and accessories• Conduct of training five (5) days after the completion of delivery and commissioning of the unit	100%	<ul style="list-style-type: none">• DR received by PSMD-SMS• Billing Statement/ Sales Invoice• Certification of Inspection and Acceptance issued by the DENR-WRMO• Warranty Certificate• Training Certificates• Aftersales Certificate

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Prepared by:


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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

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

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Section VII-Revised Technical Specifications

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
Geo-resistivity Meter		
General	<ul style="list-style-type: none"> • LCD Display • Operating Temperature: -20 °C to +70 °C (once it reaches more than 70°C, it will automatically shut off) • Power supply (battery) : internal 12V/7.2 Ah rechargeable External 12V • Automatic computation of apparent resistivity • 2 simultaneous channels • Internal memory for data storage <ul style="list-style-type: none"> ○ Not less than 44,800 readings • Cable and software for data transfer • Software for data processing • User's manual • GPS input for coordinates • Power: 12 V, 8 Ah internal battery, built-in charger and 12-18V DC external battery • With safety emergency switch • 1x transport case • 1x set of accessories for standard surveys including: <ul style="list-style-type: none"> ○ 2x reels 500m cable ○ 2x reels 250m cable ○ 4x metallic stakes/steel electrodes (Length:60cm) ○ Set of 4 stainless alligator clips that can clamp a 3/4 steel electrodes ○ 4x meter connection cables • 2x sledgehammer • 3x two-way radios • 1x analog multi-tester 	
Transmitter	<ul style="list-style-type: none"> • Minimum power: 200 W or higher • Minimum voltage: 600 V or higher on automatic or 1200 V or higher on manual • Minimum current: 2.5A • Precision: 0.2% • Pulse duration: 0.25s, 0.5s, 1s, 2s, 4s, 8s 	
Receiver	<ul style="list-style-type: none"> • 2 simultaneous reception channels • Input impedance: 100 Mohm • Minimum input voltage: 15 V • Input overvoltage protection • 50/60 Hz power line rejection • Voltage measurement specifications: <ul style="list-style-type: none"> ○ Resolution: 1 μV after stacking ○ Accuracy: standard 0.2% ○ Max 1% from -20 °C – 70 °C 	

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

Geo-resistivity Meter _____

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

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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)*

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

Project: PROCUREMENT OF GEO-RESISTIVITY METER FOR THE WATER RESOURCES MANAGEMENT OFFICE (WRMO) OF THE DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES-CENTRAL OFFICE (DENR-CO)

Bid Ref. No. DENR-CO-2024-043

APPROVED BUDGET FOR THE CONTRACT: P4,500,000.00

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**)

Similar in Nature shall mean "Supply and delivery of Geo-resistivity Meter"

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:

Project ABC (₱)	Bid Security: Cash, Cashier's/ Manager's Check, Bank Draft / Guarantee, Irrevocable Letter of Credit (2%) (₱)	Bid Security: Surety Bond (5%) (₱)	Original Bid Securing Declaration
4,500,000.00	90,000.00	225,000.00	No required Amount

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:

<input type="checkbox"/>	<p><i>The following are the grounds for forfeiture of Bid Security</i></p> <ul style="list-style-type: none"> ▪ IF A BIDDER: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.
<input type="checkbox"/>	<p>(e) Conformity with Section VI. Revised Schedule of Requirements (Terms of Reference as of 16 August 2024) and Section VII. Revised Technical Specifications, as enumerated and specified in the Bidding Documents.</p>
<input type="checkbox"/>	<p>(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 <u>Proof of Authority of the bidder's authorized representative/s</u>:</p> <ul style="list-style-type: none"> 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. <p>Note: <i>Should there be more than one (1) appointed authorized representatives, use the word <u>"any of the following"</u> or <u>"OR"</u>, otherwise, all authorized representatives must sign/initial the bid submission.</i></p> <p>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.</p>

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**

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**); **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.