CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagatna, Guam 96932 | (671)649-3002 | guamccu.org

GWA RESOLUTION NO. 20-FY2023

RELATIVE TO APPROVAL OF THE INDEFINITE DELIVERY/INDEFINITE QUANTITY IMPLEMENTATION OF DISTRICT METERED AREAS DESIGN AND CONSTRUCTION MANAGEMENT CONTRACT

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual and policy matters relative to the Guam Waterworks Authority ("GWA"); and

WHEREAS, the GWA is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, the GWA has developed a Water Loss Control Program Development and District Metered Area Implementation Plan to reduce non-revenue water and to provide long-term sustainable system to monitor and manage water losses within GWA's water supply and distribution network; and

WHEREAS, under the Water Loss Control Program Development and District Metered Area Implementation Plan, thirty-six (36) district metered areas have been identified for implementation throughout GWA's water system; and

WHEREAS, GWA has advertised the Request for Proposals (RFP-07-ENG-2022) soliciting statement of qualifications from experienced and qualified engineering firms to provide design and construction management services for the Indefinite Delivery/Indefinite Quantity (ID/IQ) for Engineering Design and Construction Management (CM) Services for the Implementation of District Metered Areas; and

WHEREAS, seventeen (17) interested parties registered for the RFP package, from which GWA received proposal submittals from 6 firms before the RFP submittal deadline; and

WHEREAS, the GWA Architect-Engineer Selection committee reviewed and evaluated the six (6) proposals (See Exhibit A – Evaluation Score Summary) and generated a short list of the top three (3) firms with a recommendation to award a contract to the firm Duenas, Camacho, and Associates, Inc. (DCA) (See Exhibit B – GM's Determination); and

WHEREAS, DCA and GWA negotiated the fee proposal for the design and construction management services for ID/IQ for Engineering Design and CM Services for the Implementation of District Metered Areas to be provided in the total amount of Three Million One Hundred Nineteen Thousand Three Hundred Seventy-Seven Dollars ($3,119,377.00) (See Exhibit C – Scope of Work and Fees); and

WHEREAS, GWA management seeks approval of the negotiated fee proposal in the amount of Three Million One Hundred Nineteen Thousand Three Hundred Seventy-Seven Dollars ($3,119,377.00) and approval to award a portion of the negotiated fee proposal in the amount of One Million Five Hundred Thousand Dollars ($1,500,000.00); and

WHEREAS, GWA shall issue Task Orders for design and construction management of the district meter areas that are identified in the Water Loss Control Program Development and District Metered Implementation Plan, Appendix A; and

WHEREAS, funding in the amount of One Million Five Hundred Thousand Dollars ($1,500,000.00) will be from the USEPA grants; and

NOW BE IT THEREFORE RESOLVED; the Consolidated Commission on Utilities does hereby approve the following:

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The CCU finds that the terms of the fee proposal submitted by Duenas, Camacho, and Associates, Inc. are fair and reasonable.
3. The CCU hereby authorizes the management to accept the fee proposal in the amount of Three Million One Hundred Nineteen Thousand Three Hundred

Seventy-Seven Dollars ($3,119,377.00) from Duenas, Camacho and Associates, Inc., which is also incorporated into this Resolution in its entirety.

4. The CCU hereby further authorizes the management of GWA to enter into an ID/IQ contract with Duenas, Camacho, and Associate, Inc., in the amount of One Million Five Hundred Thousand Dollars ($1,500,000.00).

5. The CCU hereby further approves the total funding amount for this project in the amount of One Million Five Hundred Thousand Dollars ($1,500,000.00).

6. The CCU hereby approves the use of funding source(s) from USEPA grants.

RESOLVED, that the Chairman certified and the Board Secretary attests to the adoption of this Resolution.

DULY AND REGULARLY ADOPTED, this 25th day of April 2023.

Certified by: Attested by:

JOSEPH T. DUENAS   **PEDRO ROY MARTINEZ**
Chairperson   Secretary

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SECRETARY'S CERTIFICATE

I, Pedro Roy Martinez, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

AYES: 4

NAYS: Ø

ABSTAIN: Ø

ABSENT: 1

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GUAM WATERWORKS AUTHORITY

Gloria B. Nelson Public Service Building 688 Route 15 Mangilao, Guam 96913

October 17, 2022

To: Brett E. Railey, P.E.
Acting Chief Engineer

From: Josephine E. Smith, PMBA
Chairperson, Consultant Selection Board

Subject: RFP-07-ENG-2022
Indefinite Delivery/Indefinite Quantity (ID/IQ) for Engineering Design and
Construction Management Services for the Implementation of
District Metered Areas (DMA)
GWA Project No. ~~S22-04-ARP~~ W22-06-BND

The following information is intended to document the evaluation process undertaken for the referenced solicitation:

EVALUATION COMMITTEE MEMBERS	
Name	**Title**
Garrett K.A. Yeoh	Senior Engineer
Jessey A. Mendiola	Junior Engineer
Ryan B. Diaz	Junior Engineer
Vincent Pangelinan	Operations and Maintenance Manager

Offerors	Evaluation Score				Total	Rank
1. Duenas, Camacho & Associates, Inc.	76	78	80	78	312	1
2. AECOM Technical Services, Inc.	78	80	83	69	310	2
3. SSFM International	78	81	76	74	309	3
4. TG Engineers, PC	70	77	63	78	288	4
5. E.M. Chen & Associates, Inc.	65	77	60	66	268	5
6. EMPSCO Engineering Consultants	61	76	50	77	264	6

Scores were evaluated based on the sum of individual scores. The recommendation of the Evaluation Committee is shown in the ranking above.

For your review and approval. Notification letters will be issued thereafter.

Approved by:

Brett E. Railey, P.E.

GUAM WATERWORKS AUTHORITY

Gloria B. Nelson Public Service Building 688 Route 15 Mangilao, Guam 96913

MEMORANDUM

To: Christopher M. Budasi
Acting General Manager

From: Brett E. Railey, P.E.
Acting Chief Engineer

Subject: RFP-07-ENG-2022
Indefinite Delivery/Indefinite Quantity (ID/IQ) for Engineering Design and
Construction Management Services for the Implementation of
District Metered Areas (DMA)
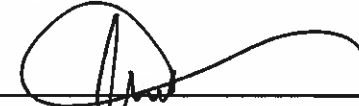GWA Project No. ~~S22-04-ARP~~ W22-06-BND

Date: October 18, 2022

The Selection Committee has completed all necessary actions for selecting the most qualified consultants for the referenced solicitation. All proposals were reviewed and scored according to the conditions established in the solicitation. The Evaluation Summary is attached for your information.

The committee recommends the following top three (3) firms in order of preference for the project:

1. Duenas, Camacho & Associates, Inc.
2. AECOM Technical Services, Inc.
3. SSFM International

Concurred:

_____   10/19/2022
Vincent E. Guerrero   Date
Supply Management Administrator

GENERAL MANAGER'S DETERMINATION

Consultant Firm Selected:

Duenas Camacho & Associates

Remarks:

_____   2022·10·21
Miguel C. Bordallo, P.E.   Date
General Manager

April 10, 2023
Miguel C. Bordallo, P.E.
General Manager, Guam Waterworks Authority
Gloria B. Nelson Public Service Building
688 Route 15 Mangilao, Guam, 96913

Attn: Garrett Yeoh, GWA Engineering Project Manager

Subject: **Indefinite Delivery/Indefinite Quantity (ID/IQ) for Engineering Design and Construction Management Services for the Implementation of District Metered Areas (DMA) GWA Project No. W22-06-BND**

Re: **Design Fee Proposal, revision 2**

Hafa Adai Mr. Yeoh,

Dueñas, Camacho & Associates (DCA) is pleased to submit the following fee proposal for engineering services for the subject project.

Program Management	$	77,744.00
Design	$	1,268,024.00
Field Surveys	$	114,637.00
Subtotal	$	1,460,405.00
Geotechnical services	$	**172,875.00**
Instrumentation and Data Acquisition	$	**206,400.00**
Biological	$	**161,072.00**
Archaeological Research Design (20 sites)	$	**391,850.00**
Land Acquisition	$	**34,575.00**
Data Acquisition sub	$	**92,200.00**
Construction Management (Time and material budget of $600K)	$	**600,000.00**
Subtotal	$	**1,658,972.00**
Total	$	3,119,377.00

Items in bold are time and material-based estimates.

Based on discussions with GWA, it is GWA's intent to award this project as task orders. DCA requests an annual escalation increase of 3% on the personnel rates shown in the attached fee breakdown starting in 2024. DCA will provide our updated insurance policy as soon as it is received from our insurer.

Sincerely,

Kenneth M. Rekdahl, P.E.
Vice-President
Dueñas, Camacho & Associates, Inc.
Attachment: Fee Proposal

ENGINEERING * PLANNING * SURVEYING * ENVIRONMENTAL SERVICES * GEOGRAPHIC INFORMATION SYSTEM * CONSTRUCTION MANAGEMENT
GUAM P.O. Box 8900, Tamuning, Guam 96931 / 238 E. Marine Corps Drive, Suite 201 Diamond Plaza, Hagatña, GU 96910 / Tel: (671) 477-7991 / Fax: (671) 479-6315
SAIPAN Caller Box PPP, Suite 164, Saipan, MP 96950 / Chalan Pale Arnold, Ada's Building South Garapan, Saipan 96950 / Tel: (670) 234-9017 / Fax: (670) 234-3842

SCOPE OF WORK

Indefinite Delivery/Indefinite Quantity (ID/IQ) for Engineering Design and Construction Management Services for the Implementation of District Metered Areas (DMA) GWA Project No. W22-06-BND

Provide Indefinite Delivery/Indefinite Quantity (ID/IQ) Professional Civil Design and Construction Management services for the implementation and development of district metered areas throughout the island. The design work shall include civil, mechanical, electrical and instrumentation work, such piping, vaults, earthworks, flow metering, pressure instrumentation, and SCADA.

Qualified firms shall have experience in program management and in the preparation of design, plans, specifications, cost estimates, contract documentation, and construction management for water system improvements. This ID/IQ will focus on designing DMA boundaries around the island. The ID/IQ firm shall be guided by GWA's Water Loss Control Program Development and District Metered Area Implementation Plan for locations.

Engineering services will include, but not be limited to the following:

1. PS&E: Plans, Specifications, and Cost Estimate Development. Develop design for DMA's for GWA's potable waterline system. The work shall include full plans, specifications, and cost estimates at the 30% (basis of design), 60%, 90%, and 100% phases. Design
2. Survey services
3. Ground penetrating radar services
4. Archaeological services
5. Environmental and biological services
6. Property and land acquisition services
7. Hydraulic modeling services
8. Coordinating and facilitating various task with local and federal agencies for grants, general agency review, and permitting.
9. IFB preparation and bidding services to include RFI bid responses, Addendum preparation, bid evaluation/recommendation, and all other task necessary to assist the bid process.
10. Provide construction management services
    a. Site management
    b. Conduct weekly meetings

      c. Construction inspection
      d. Quality assurance testing
      e. Submittal, RFI, shop drawing review
      f. Payment request review
      g. Change order review and recommendation

A/E shall furnish, in accordance with the agreed upon schedule, a complete, practical, economical design, plans, specifications, and related corrections and changes which are best suited for the contemplated construction, and ensure all work is completed in accordance with this Agreement and with sound engineering principles and is signed and sealed by a licensed Professional Engineer. A/E shall provide all calculations, data, charts, field date, and other information of any type whatsoever which support its designs or other work performed pursuant to this Agreement. A/E may not assert as a basis for refusing to provide such information that it is proprietary. A/E shall satisfy GWA with design decisions that are based on objective evaluation of the requirements of the facility owner and user, meet site-specific conditions, comply with Project construction cost budget, and minimize long-term operation and maintenance costs. A/E is aware and agrees that GWA has the right to submit the A/E's work product to independent design reviewers. A/E agrees to fully cooperate with such reviewers if GWA determines review is appropriate. A/E's obligation to cooperate shall include the obligation to respond in an objective professional manner to requests for information, and, if expressly requested by GWA, to enter into a dialogue with the reviewer regarding the comments of the reviewer on the work.

The contract will provide for the issuance of Task Orders (TO) requiring a variety of engineering and construction services as needed and determined by GWA. Each TO will be negotiated with the selected A/E firms. The contract as noted is an Indefinite Delivery Indefinite Quantity (ID/IQ) type contract and GWA does not guaranteed any number of TO to be issued. GWA also does not guarantee a minimum or maximum dollar value of TO's placed with any firm.

Examples of the types of work under this ID/IQ includes, but not limited to, DMA implementation:

Task Order Scopes of Work for Design and Construction Management

1. Design Services to be provided by the Consultant:

    a. Project Management: The consultant shall develop a work plan and schedule for the scope of work to be accomplished within the agreed performance time of the TO's. The schedule shall include reasonable time periods for any review by GWA or other government agency (such as EPA, GEPA, etc.). Projects shall require reoccurring meetings during the progress of the work. Design meetings to discuss the overall plan, requirements, constraints, expectations, outcomes, design

features, design progress, and other project specific elements for discussion between GWA and the consultant to coordinate work.

b. Design: GWA anticipates that TO's shall be issued to begin design for selected sites based on developing DMA's based Water Loss Control Program Development and District Metered Area Implementation Plan. Sites shall be for design and ranked in priority according to their volume of water loss and recommendation from the Plan.

The A/E shall prepare a basis of design for each design (30% phase). As part of the design, the consultant shall collect and review, from GWA and other sources, data required to design facilities outlined in each TO. Site-visits will be required to completely comprehend the scope of work, the design needs, and the necessary data collection. The consultant shall identify any constraining factors that affect design and construction. The consultant shall coordinate and meet with GWA to review available "as-builts" of existing water and other utilities. The basis of design shall establish the design criteria, define preliminary routing of the proposed pipelines, location of control valves, pumping stations, identify right-of-way limits, list questions needing answers for the design, and list decision items. Once the basis of design has been accepted by GWA, the consultant shall move into the design phases.

Following approval of the basis of design, the consultant shall proceed with design for the complete scope of work as outlined in each TO and prepare all engineering and hydraulic calculations, perform all field work, prepare construction plans, specifications, and estimate the cost of construction at the 60%, 90% and 100% phases.

c. Geotechnical Studies: When required by TO, the consultant shall conduct explorations for geotechnical investigation to determine subsurface conditions, soil properties, and groundwater levels as required for excavation information, foundation parameters, and related engineering information or anticipated construction conditions. A geotechnical report shall be prepared and submitted to GWA to include maps, boring records, soil type, allowable soil bearing capacity, pipe backfill suitability of in-situ soils, presence of groundwater water encountered, and all other pertinent information required to complete the scope of work.

d. Field Surveys: When required by TO, the consultant shall conduct surveying for the purposes of a topographic survey, right-of-way, and developing design and

construction drawings for the proposed facilities as described in each TO scope of work. The survey must indicate easements, property lines, existing utilities, existing water meters, edges of pavement, driveways, existing buildings, structures, trees, and fences within the vicinity of the project.

e. Additional Design Services: As may be necessary for specific work, other additional design services such as archeological review, environmental permitting, biological surveys, ground penetrating radar services, property acquisition and survey services, pressure logging and flow metering equipment procurement, and all other services necessary for DMA implementation.

2. Construction Management Services to be provided by the Consultant:

a. Pre-Construction: the following elements of construction activity are required during the pre-construction stage of construction management. The consultant shall perform these tasks when required in a TO.

   From the time of issuance of the Notice to Proceed (NTP for pre-construction activities prior to the issuance of DPW building permit), all duties listed in this section, at a minimum, shall be part of the CM's daily duties within typical working hours.

   - Conduct pre-construction conference. Agenda shall be developed by the consultant.
   - Conduct weekly meetings.
   - Review Contractor's submittal and construction schedule.
   - Review Contractor's master submittal log.
   - Review all submittals for conformance with plans and specifications. Submittals to include product and material data, shop drawings, outage plans, schedule updates, and RFIs'.
   - Review Contractor's safety and traffic control plans.
   - Review the Storm Water Pollution Prevention Plan.
   - Ensure that Contractor has applied for all required permitting to being the project.
   - Set up and maintain Construction Management Software: ProCore

b. Construction: the following elements of construction activity are required during the construction stage of construction management. The consultant shall perform these tasks when required in a TO.

From the time of issuance of the NTP (after issuance of the DPW building permit), all duties listed in this section, at a minimum, shall be part of the CM and Inspectors daily duties within typical working hours.

- Monitor and inspect daily construction activities in compliance with the contract, plans and specifications, and applicable codes and regulations.
- Witness all quality control testing by the Contractor.
- Maintain Construction Management Software (ProCore). All submittals shall be submitted through the management software.
- Conduct quality assurance testing and surveying as required by the plans and specifications.
- Prepare correspondences as requested by GWA.
- Conduct Davis-Bacon interviews if the construction project is grant funded.
- Review progress payment requests for accuracy and proper reflection of actual work performed and make recommendations to GWA regarding appropriateness and approval.
- Review contractor submitted payroll records for each payment request according to contract requirements.
- Issue directives and corrective action notices dealing with quality of workmanship, non-compliance, safety, and performance.
- At GWA's request, prepare field orders to change specific scope of work requirements.
- Schedule and coordinate all inspection, surveys and material testing.
- Review updated contractor's progress schedule and recommend approval or rejection to GWA.
- Verify contractor's material supply list with regard to delivery timetable, progress schedule, and justification for payment.
- Analyze and participate in negotiating claims and contract change requests; recommend action deemed appropriate.
- Prepare for GWA approval, change orders to modify the terms of the contract (change in cost, performance time, or technical provisions). Make changes to the design as necessary.
- Provide daily construction reports which includes pictures of construction highlighting deficient work, safety violations, examples of acceptable work, and other critical items. Reports shall be in ProCore.
- Maintain a set of as-built drawings recording all installed facilities, deviations from the original plans, details of installation, encountered subsurface features and utilities, and critical dimensions. This set of As-Built drawings is to be separate from the Contractor's as-built drawing set. The purpose of this task is to ensure that the CM has their own set to check against the Contractor's set of drawings.

- Conduct weekly (or specified meeting interval) project meetings with the contractor and GWA to discuss work progress and any concerns relating to the construction.
- Witness field tests performed by the construction contractor or his representative for compliance with the contract drawings and specifications.
- Inspect construction, installation, and assemblage of work agreed to with GWA. Verify conformance to the contract provisions and check for acceptable workmanship. Report acceptable and unacceptable work to GWA.

c. Post Construction: the following elements of construction activity are required during the post-construction stage of construction management. The consultant shall perform these tasks when required in a TO.

- Lead pre-final inspection and prepare a list of incomplete work to be completed before substantial completion and final completion.
- Determine the date of substantial completion according to the contract terms.
- Lead final inspection and prepare a punch list of deficiencies to be completed before final acceptance and final payment.
- Perform or observe all operational testing for proper operation, functionality, and performance. Accumulate all performance test data and submit to GWA.
- Verify final quantities installed and note differences from the estimated contract amount.
- Accumulate and provide to GWA all records, documents, submittals, log books, files, test results, etc.
- Review contract required warranties, O&M manuals, etc. and verify full compliance by the contractor.
- Provide a final review of construction contractor's as-built drawings and transmit the as-built drawings to GWA.
- Provide CM's as-built drawings and transmit to GWA.