

INVITATION FOR BID

ISSUING OFFICE:

Guam Power Authority-Procurement Office
1st. Floor, Room 101
Gloria B. Nelson Public Service Building
688 Route 15
Mangilao, Guam 96913

Attn: JOHN M. BENAVENTE, P.E.

General Manager
c/o JAMIE LYNN C. PANGELINAN
Supply Management Administrator

for [Signature] 1/9/2023
JOHN M. BENAVENTE, P.E. DATE
General Manager

DATE ISSUED: 01/10/2023 - PDN 01/11/2023 - The Guam Daily Post
01/17/2023 - PDN & The Guam Daily Post BID INVITATION NO.: GPA-022-23

BID FOR: Siemens SP5 SCADA EMS Storage Replacement

SPECIFICATION: See Attached

DESTINATION: See Attached

REQUIRED DELIVERY TIME: 13 Weeks After Receipt of Order (ARO)

INSTRUCTIONS TO BIDDERS:

INDICATE WHETHER: INDIVIDUAL PARTNERSHIP CORPORATION

INCORPORATED IN:

This bid shall be submitted in duplicate and sealed to the issuing office above no later than (Time) 11:00 A.M.,
Date: January 24, 2023 and shall be publicly opened. Bid submitted after the time and date specified above
shall be rejected. See attached General Terms and Conditions and Sealed Bid Solicitation for details.

The undersigned offers and agrees to furnish within the time specified, the articles and services at the price stated opposite
the respective items listed on the schedule provided, unless otherwise specified by the bidder. In consideration to the
expense of the Government in opening, tabulating, and evaluating this and other bids, and other considerations, the
undersigned agrees that this bid remain firm and irrevocable within one hundred twenty (120) calendar days from the date
opening to supply any or all of the items which prices are quoted.

NAME AND ADDRESS OF BIDDER:

SIGNATURE AND TITLE OF PERSON
AUTHORIZED TO SIGN THIS BID:

[Blank lines for bidder name and address]

[Blank line for signature]

AWARD: CONTRACT NO.: AMOUNT: DATE:

ITEM NO(S). AWARDED:

CONTRACTING OFFICER:

JOHN M. BENAVENTE, P.E. DATE
General Manager

NAME AND ADDRESS OF CONTRACTOR:

SIGNATURE AND TITLE OF PERSON

[Blank lines for contractor name and address]

[Blank line for contractor signature]



# GUAM POWER AUTHORITY

ATURIDÁT ILEKTRESEDÁT GUÅHAN  
P.O.BOX 2977 • HAGÁTÑA, GUAM U.S.A. 96932-2977

January 18, 2023

AMENDMENT NO.: I

TO

INVITATION FOR BID NO.: GPA-022-23

FOR

SIEMENS SP5 SCADA EMS STORAGE REPLACEMENT

Prospective Bidders are hereby notified of the following change:

1. *REMOVE* Page 4 of 25 and *REPLACE* with Page 4a of 25 (see attached).

Quantity is changed *FROM* 2 each *TO NOW READ* 1 each.

All other Terms and Conditions in the bid package shall remain unchanged and in full force.

for JOHN M. BENAVENTE, P.E.  
General Manager

INVITATION FOR BID NO.: GPA-022-23  
Requisition No.: 37261

NO.	DESCRIPTION	QTY.:	UNIT PRICE:	TOTAL PRICE:
1.0	To provide Guam Power Authority Power System Control Center, Siemens SP5 SCADA EMS Storage replacement which is currently at end of life service.	* 1	\$ _____	\$ _____
<b>A. SPECIFICATIONS:</b>				
<div style="display: flex; justify-content: space-around;"> <span data-bbox="976 736 1198 795"><b>COMPLY</b></span> <span data-bbox="1289 736 1500 795"><b>NOT COMPLY</b></span> </div> <p>Comply must be identified below. All deviations must be identified below.</p>				
<p>A.1 - Initial storage requirement of one (1) each 29.1TiB (~32TB), RAW (before dedupe or compression) or better; Hard Disk configuration shall be NVMe All-flash, direct-flash modules.</p> <p>A.2 - Hardware shall not exceed 3RU footprint.</p> <p>A.3 - Hardware shall include components to provide connectivity (4-ethernet links) to a 10G Ethernet upstream switch. (x4) 10G Direct-attached-cables (DAC), twinax, is preferred. If DAC is not an available option, (x4) 10G MMF SFP transceivers with matching patch cables shall be provided.</p> <p>A.4 - Hardware for the proposed solution shall provide full redundancy for power supply, storage controllers, and network connectivity.</p> <p>A.5 - Able to tolerate an unscheduled power outage without the loss or corruption of data using native power banks to allow for graceful shutdowns, committing all in-flight writes.</p> <p>A.6 - Deduplicate and compress incoming data in-line.</p> <p>A.7 - FIPS 140-2 compliant and have a valid certificate.</p> <p>A.8 - Automatically creates, partitions, and stores new encryption keys every 24 hours.</p> <p>A.9 - Able to scale capacity and performance independently of one another.</p> <p>A.10 - Solution shall support non-disruptive upgrades with no risk of downtime or data migration.</p> <p>A.11 - Able to replace controllers or storage media while system is online and serving clients without causing loss or corruption of data.</p> <p>A.12 - Supports non-disruptive upgrades that can occur with zero or near-zero performance impact, with no risk of downtime or data migration.</p> <p>A.13 - Solution shall support the addition of flash media of different capacities non-disruptively to an existing system and without the need to manually equalize I/O.</p> <p>A.14 - Snapshots shall be immutable.</p> <p>A.15 - Supports and includes native encryption at rest without the need of additional hardware, software, or licensing.</p>				


Specification Generated/Reviewed By:

**James Shimizu** Digitally signed by James Shimizu  
Date: 2023.01.17 14:15:44 +10'00'  
JAMES G. SHIMIZU Date  
SCADA Systems Analyst Supervisor

Specification Reviewed/Concurred By:

**FC Santos** Digitally signed by FC Santos  
Date: 2023.01.17 14:16:27  
+10'00'  
FRANCISCO C. SANTOS Date  
Manager, Power Systems Control  
Center

Specification Approved By:

 1/17/2023  
\_\_\_\_\_, P.E. Date  
Assistant General Manager of  
Operations