



# GUAM POWER AUTHORITY

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

To All Interested Parties:

I hereby acknowledge the following *GLOBAL NOTICE: COVID-19 PANDEMIC requirements*:

To ensure the safety and well-being of personnel and prospective bidders, please be advised of the following:

1. Six (6) Feet of Social Distancing shall be practiced.
2. Mandatory face mask required for each individual.
3. Temperature checks shall be conducted upon entrance of the Gloria B. Nelson Public Service Building.
4. One (1) Personnel per Prospective Bidder to submit and attend public opening.
5. One (1) Personnel per Prospective Offeror to submit an RFP proposal.

COMPANY NAME:

NAME OF INDIVIDUAL:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

BID NO.: RE-BID GPA-073-20

RFP NO.: \_\_\_\_\_



JOSEPH T. DUENAS  
Chairman



JOHN M. BENAVENTE, P.E.  
General Manager

Telephone Nos. (671) 648-3054/55 or Facsimile (671) 648-3165

Accountability	Impartiality	Competence	Openness	Value
INVITATION FOR BID (IFB) NO.: <u>Re-Bid GPA-073-20</u>				
DESCRIPTION: <u>Pad Mounted Transformers</u>				

**SPECIAL REMINDERS TO PROSPECTIVE BIDDERS**

Bidders are reminded to read the Sealed Bid Solicitation and Instructions, and General Terms and Conditions attached to the IFB to ascertain that all of the following requirements checked below are submitted in the bid envelope, one (1) original, in duplicate, at the date and time for bid opening.

(XX) BID GUARANTEE (15%) May be in the form of;  
(NOTE: Cashier’s Check or Certified Check Refunds will be ONLY be made out to the name of the Bidder.)  
Reference #11 on the General Terms and Conditions

- a. Cash, Bank Draft, Cashier’s Check or Certified Check
- b. Wire Transfer to Guam Power Authority. Account information shall be sent to bidders upon request.
- c. Letter of Credit or
- d. Surety Bond – Valid only if accompanied by:
  - 1. Current Certificate of Authority issued by the Insurance Commissioner;
  - 2. Power of Attorney issued by the Surety to the Resident General Agent;
  - 3. Power of Attorney issued by two (2) major officers of the Surety to whomever is signing on their behalf.

( ) STATEMENT OF QUALIFICATION;

( ) SAMPLES;

(XX) BROCHURES/DESCRIPTIVE LITERATURE; (Shall provide detailed literature on items offered.)

(XX) AFFIDAVIT OF DISCLOSURE OF MAJOR SHAREHOLDERS;

(XX) NON-COLLUSION AFFIDAVIT;

(XX) NO GRATUITIES OR KICKBACKS AFFIDAVIT;

(XX) ETHICAL STANDARDS AFFIDAVIT;

(XX) WAGE DETERMINATION AFFIDAVIT;

(XX) RESTRICTIONS AGAINST SEX OFFENDERS AFFIDAVIT;

Affidavits must comply with the following requirements:

- a. The affidavit must be signed within 60 days of the date the bid is due;
- b. Date of signature of the person authorized to sign the bid and the notary date must be the same.
- c. First time affidavit must be an original – If copy, indicate Bid Number/Agency where original can be obtained.

(XX) OTHER REQUIREMENTS:

A Guam Business License with proof of Employer Identification Number (EIN) is not required in order to provide a proposal for this engagement, but is a pre-condition for entering into a contract with the Authority. Bidders MUST comply with PL 26-111 dated June 18, 2002, PL 28-165 dated January 04, 2007 and Wage Determination under the Service Contract Act ([www.wdol.gov](http://www.wdol.gov)). Additionally, upon award the successful bidder must provide to GPA the most recently issued Wage Determination by the US Dept. of Labor.

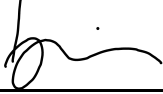
The reminder must be signed and returned in the bid envelope together with the bid. Failure to comply with the above requirements will mean a disqualification and rejection of the bid.

On this \_\_\_\_\_ day of \_\_\_\_\_, 2021, I, \_\_\_\_\_, authorized representative of \_\_\_\_\_ acknowledge receipt of this special reminder to prospective bidders with the above referenced IFB.


\_\_\_\_\_  
Bidder Representative’s Signature

INVITATION FOR BID

ISSUING OFFICE:  
Guam Power Authority  
Procurement Management Materials Supply  
1st. Floor, Room 101  
Gloria B. Nelson Public Service Building  
688 Route 15  
Mangilao, Guam 96913



5/3/2021

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

\_\_\_\_\_  
\_\_\_\_\_  
DATE ISSUED: 05/11/2021  
05/18/2021 BID INVITATION NO.: Re-BidGPA-073-20  
BID FOR: Pad Mounted Transformers  
SPECIFICATION: See Attached  
DESTINATION: GPA Dededo Warehouse  
REQUIRED DELIVERY DATE: 18 Weeks After Approved Drawings by Guam Power Authority  
Engineering

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) 10:00 A.M.  
Date: 05/26/2021 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:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_

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

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_

INVITATION FOR BID NO.: Re-Bid GPA-073-20  
 Requisition No.: 34318

NO.	DESCRIPTION	QTY:	U/I:	UNIT PRICE:	TOTAL PRICE:
1.0	100 kVA Pad Mounted Transformer	4	Each	\$ _____	\$ _____

**COMPLY / NON-COMPLIANCE:**

**A. SPECIFICATIONS:**

A.1 – Single-Phase, Dead-Front, 4 Bushing Loop Feed, Insulation Class 15 kV, BIL 95 kV, External Tap Changer, External Load Break Oil Rotary Switch (LBOR) Primary Voltage 13.8 kV, Secondary Voltage 120/240 V.

A.2 – All parts of the transformer such as hood, doors, hinges, tank, compartment, base, radiator, and other accessories shall be made of type 304L stainless steel.

As per GPA Specifications No.: E-003 Revision 10  
 GPA Index No.: E3010013802040B-4

**B. SAFETY DATA SHEET (SDS):**

B.1 - Provide consignee with 'SAFETY DATA SHEET' when making deliveries to avoid rejection.

**C. LOSS EVALUATION:**

C.1 - Bid award for pad mounted transformers shall be based on the Total Cost of Ownership (TCO) and all other requirements as specified in GPA Specification E-003, Revision 10, Section 6.3 and GPA Specification E-004, Revision 9, Section 6.3.

**D. MARKING REQUIREMENTS:**

D.1 - Stencil 1" GPA Index No./ Purchase Order No./ Bid No./ Serial No. and Date of MFG. (DO NOT OBLITERATE MFG LABEL)

D.2 - Manufacturer Serial No. shall be shown on all delivery receipts and invoices.

D.3 - All transformers shall have a weather resistant decal certifying NON-PCB.

D.4 – Vendors are to provide a user’s manual and certified laboratory test report for every transformer delivered.

D.5 – Vendors are responsible to de-van materials from containers.

D.6 – Vendors are responsible to provide a means to off load transformers that are 750 kVA or larger.

D.7 – Transformers shall meet all U.S. Department of Energy requirements.

**\*\*APPROVED EQUAL TO OR BETTER\*\***

All deviations shall be identified referencing the Section and Sub-Section(s) from the attached GPA Specification.

**NOTE:**

Notwithstanding the fact that this contract was written by one (1) party, it will be construed that it was written by two (2) parties.

**REMARKS / DEVIATIONS:**

**DELIVERY REQUIREMENT:**

18 Weeks After Approved Drawings by Guam Power Authority Engineering

Reasonable delivery extension requests for this specific bid will be duly considered with the supporting documentation however, such requests are not guaranteed approval due to critical and urgent need of the materials to support the Guam Power Authority's needs.

TO BE COMPLETED BY BIDDER:

MANUFACTURED/BRAND NAME: \_\_\_\_\_


CAT. NO. / MODEL NO.: \_\_\_\_\_

PLACE OF ORIGIN: \_\_\_\_\_


EXPORT ABROAD: \_\_\_\_\_

TIME OF DELIVERY AFTER RECEIPT OF  
PURCHASE ORDER: \_\_\_\_\_


Specifications Generated/Reviewed by:


 04/30/2021  
\_\_\_\_\_  
JANET PANGELINAN Date  
(A) Inventory Management Officer

Specifications Concurred by:

 05/03/2021  
\_\_\_\_\_  
for JAMIE LYNN C. PANGELINAN Date  
Supply Management Administrator

Specifications Approved by:

 5/3/2021  
\_\_\_\_\_  
BEATRICE P. LIMTIACO Date  
Assistant General Manager of Administration



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<b>PREPARED BY THE ENGINEERING DEPARTMENT</b>		<b>REV. 10</b>

**GUAM POWER AUTHORITY  
P.O. BOX 2977  
HAGATNA, GUAM 96932**

**TRANSMISSION & DISTRIBUTION SPECIFICATION  
Specification No. E-003**

**FOR**

**SINGLE PHASE PAD MOUNTED  
DISTRIBUTION TRANSFORMER**

<b>EFFECTIVE DATE:</b> 4/3/18	<b>ISSUED:</b> 	<b>APPROVED:</b> 
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PREPARED BY THE ENGINEERING DEPARTMENT


REV. 10

**SINGLE PHASE PAD MOUNTED  
DISTRIBUTION TRANSFORMER**

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### 1.0 SCOPE

- 1.1. This specification covers GPA requirements for single-phase, loop or dead-front radial feed, 60 Hz, mineral oil filled, 65° C rise pad mounted type distribution transformers for use with separable insulated high-voltage connectors.
- 1.2. The transformer is intended for use in tropical weather conditions with a corrosive sea air atmosphere, sustained wind strengths of 155 MPH with gusts to 180 MPH and subject to moderate and severe earthquakes.

### 2.0 APPLICABLE PUBLICATIONS

The transformers shall meet the requirements of the following standards, including the latest revisions with respect to material, design and tests.

- 2.1. AMERICAN NATIONAL STANDARDS INSTITUTE, INC. (ANSI)
  - C57** Requirements for Distribution Transformers
  - C68.1** Techniques for Dielectric Tests
  - C76** Apparatus Bushings
- 2.2. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) STANDARDS
  - TR 1** Transformers, Regulators and Reactors
- 2.3. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) STANDARDS
  - D3487** Mineral Insulating Oil used in Electrical Apparatus
  - D92** Manual Cleveland Flashpoint Tester
  - D877** Dielectric Breakdown Voltage of Insulating Liquids
- 2.4. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
  - 70** National Electrical Code
  - 70B** Electrical Equipment Maintenance
- 2.5. FEDERAL SPECIFICATIONS
  - TT-P-636D** Red or Brown Iron-Oxide Primer for Galvanized Metal Surfaces


### 3.0 DEVIATIONS AND NON-CONFORMANCE REQUIREMENTS

- 3.1. Deviations from this specification or changes in the material or design after the purchase order has been placed must be approved by the GPA Engineering department and acknowledged by a Purchase Order Amendment issued by GPA.
- 3.2. Units received with deviations or non-conformances that are not acknowledged per Section 3.1 are subject to rejection. The Supplier of rejected units is responsible for any corrective

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ISSUED: APPROVED: 



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action including but not limited to materials, labor and transportation necessary to dispose of or make the units conform to the specification.

- 3.3. Notification of defective units discovered before or after installation that are believed to be inherent to manufacturing problems or workmanship shall be made and forwarded to the Supplier. The description of the item, documentation of the problem and the described information, disposition and/or follow-up (as appropriate) that GPA expects from the Supplier will be specified. The Supplier's response shall be made within thirty (30) days unless an extension IS acknowledged and approved in writing by the GPA Manager of Engineering.
- 3.4. Warranty –the Supplier shall warrant the distribution transformer to be free from defects in material and workmanship under normal use and service conditions. The term of the Warranty shall be the lesser of twelve (12) months from the date of initial installation or eighteen (18) months from date of sale/purchase.
- 3.5. Statement of Compliance - The Supplier shall provide a signed statement verifying that the products being supplied fully comply with the specifications and drawings. Items not in full compliance with the specification and drawings will be identified with a description of the deficiency and any proposed substitutions. Items not in full compliance with the specifications and drawings must be approved by the GPA Engineering Department, as described in Section 3.1.

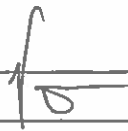
#### 4.0 SUBMITTALS

- 4.1. The bidder shall provide with their bid the following data:
  - a. Nameplate Data
  - b. Connection diagrams
  - c. Guaranteed total loss at 100% voltage and load
  - d. Guaranteed no-load loss at rated voltage
  - e. Shop Drawings
  - f. Low voltage circuit breaker time-current characteristics curve
- 4.2. Information for shop drawings shall include:
  - a. Mounting dimensions
  - b. Location of equipment, devices and terminals
  - c. Weights
  - d. Number of gallons of oil
  - e. Nameplate Data
  - f. Connection diagrams
  - g. Guaranteed total loss at 100% voltage and load
  - h. Guaranteed no-load loss at rated voltage
- 4.3. After award of contract, shop drawings indicating details of construction and the outline of all connectors shall be submitted to GPA Engineering for review and approval.
- 4.4. GPA shall be allowed two (2) weeks to review and approve drawings provided in Section 4.2 without affecting the shipping date. Delays in delivery due to drawings that are disapproved during this review period are the responsibility of the Supplier.
- 4.5. Drawings returned to the Supplier as approved shall be considered authorization to proceed with the work. The approval of GPA shall in no way abrogate the requirements of this specification.

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ISSUED:



APPROVED:





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### 5.0 CERTIFIED LABORATORY TEST REPORTS

- 5.1. Certified tests shall be conducted in accordance with ANSI C57 plus a standard production impulse test. Transformers shall have passed all required tests demonstrating compliance with the design requirements and industry standards.
- 5.2. The Supplier shall also conduct tests to determine transformer load and no-load losses. This test data shall be certified as true and correct by an independent testing firm and submitted to the Authority.
- 5.3. The Supplier shall furnish two (2) copies of the certified test reports of all tests covered by this specification to the GPA Manager of Engineering prior to shipment.

### 6.0 LOSS EVALUATION

- 6.1. Each bidder shall submit with his bid the guaranteed load and no-load losses on each transformer submitted. Guaranteed load losses shall be provided at 85° C and shall be stated at the nominal voltage tap positions.
- 6.2. Guaranteed losses will be evaluated by GPA to determine the equivalent cost for owning and operating each transformer. The value of the transformer no-load and load losses will be determined by GPA at the time of purchase to arrive at the projected Total Cost of Ownership (TCO) as follows:

$$TCO = IC + A \times (P_o + P_{co}) + B \times (P_k + P_{cs} - P_{co}) \text{ Where:}$$

- $P_o$  = No Load Losses (NLL) in kW (Provided by Bidder)
- $P_{co}$  = Power Consumption of Cooling Equipment at No Load Operation (Zero Power Consumption of Cooling Equipment, unless otherwise provided)
- $P_k$  = Load Losses (LL) in kW (Provided by Bidder)
- $P_{cs}$  = Power Consumption of Cooling Equipment at Rated Power Operation (Zero Power Consumption of Cooling Equipment, unless otherwise provided)
- IC = Initial Transformer Cost (Provided by Bidder)
- $A = t \times c_{n/2} \times (1 - (1/(1+i))^n) / i$
- $B = u \times t \times c_{n/2} \times (1 - (1/(1+i))^n) / i$
- $u = k^2$
- t = Operating Hours per Year (24 Hours/Day X 365 Days/Year = 8760 Hours)
- i = Discount Rate (5% Used By GPA for Money Certificates Issued)
- n = Expected Lifetime of the Transformer in Years (GPA Uses 25 Years)
- $c_{n/2}$  = Is the Cost of energy at the Mid-Life of the Transformer

Note: If Annual increase of energy price is assumed to be constant,  $c_{n/2}$  can be calculated using C, j & n

- $c_{n/2} = (C + (C \times (1+j)^n)) / 2$
- C = Is the Initial Cost of Energy (\$) (Calculated From the weighted average energy rate from the Revenue Report with Fuel-Non Fuel Data Dec 2017)
- j = Is the Annual Increase of Energy Price (%) (Calculated from the Base Rate Increases from 1998 to 2018)
- k = Is the Average Loading of the Transformer During its Lifetime (Calculated using data From the GPA Distribution Analysis 2010-2015)

EFFECTIVE DATE: 4/3/18

ISSUED: [Signature]

APPROVED: [Signature]



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- 6.3. A Band of Equivalence method will be used when evaluating the total cost for owning and operating each transformer. Transformers with a TOC that is within 5% of the transformer with the lowest TOC will be considered equivalent. The transformer with the lowest purchase price within this band shall be considered the lowest bid.
- 6.4. GPA will review actual, certified load and no-load losses for each transformer. In the event the actual losses exceed the guaranteed losses, the Supplier's contract will be reduced. The price reduction shall be the difference between the guaranteed losses and the actual losses at the rates indicated above. Load and no-load loss penalties will be assessed independently. Bonuses will not be awarded for actual losses which are less than guaranteed. Any transformer with no-load losses or total losses greater than the tolerances indicated in ANSI C57 shall be rejected by the Authority.

**7.0 RATINGS**

- 7.1. The primary voltage rating is 13,800 V.
- 7.2. Secondary Voltage ratings shall be either 120/240 or 240/480 volts as required.
- 7.3. The insulation class is 15 kV and the primary-voltage BIL is 95 kV.
- 7.4. The required transformer kVA ratings will be indicated on the purchase order. The following kVA ratings are standard for GPA pad mounted transformers:

25, 50, 75, 100 and 167

Transformers with kVA ratings of 25, 50, 75, and 100 shall be 4-bushing loop feed.  
Transformers with kVA rating of 167 shall be radial feed.


- 7.5. The transformer impedance shall be as indicated in Table 1. ANSI tolerances may be applied to these values. The impedance value shall be provided on the nameplate.

TABLE 1  
Transformer Impedance

Size (KVA)	Minimum Impedance (%)
25	1.6
50-100	1.8
167	2.1

- 7.6. The transformer shall meet the latest energy efficiency standards for liquid immersed distribution pad mounted transformers required by the United States Department of Energy.
- 7.7. The Average Winding Rise shall be 65°C.

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## 8.0 DESIGN

### 8.1. Taps

- a. Unless otherwise specified, taps shall be furnished on the high voltage winding. Tap ratios shall conform to ANSI C57 for 13.8 kV transformers, with two 2½ % taps above and below the rated voltage.
- b. Taps shall be full KVA rated and have short circuit capability noted in ANSI C57.
- c. The selection of the tap desired shall be obtained through the operation of an externally operated switch.
  1. The switch shall be designed for de-energized operation.
  2. The switch assembly shall be snap action or the handle designed to permit checking that a switching operation has been completed.
  3. The switch assembly shall be designed to prevent accidental operation.
  4. Tap positions shall be clearly marked near the switch handle and on the transformer nameplate.
  5. A clearly legible yellow sign in accordance with 9.10.c shall be located adjacent to the handle which identifies it as the tap changer handle and includes a warning to not operate energized.
- d. The tap changer operating handle shall be located either in the low-voltage compartment, above the low-voltage bushings or hot stick operable at the high voltage compartment without interfering with installed primary cables.

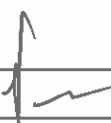
### 8.2 Protection

- a. Transformers shall be supplied with primary bayonet-type, oil-immersed fuses with isolation links.
- b. Fuse links shall be replaceable without requiring cutting or grinding of the transformer tank.
- c. Bayonet fuses with isolation links shall meet the following requirements:
  1. A yellow sign in accordance with 9.11.c reading "CAUTION READ BAYONET OPERATING INSTRUCTION BEFORE RE-FUSING" shall be located adjacent to bayonet fuses.
  2. A closed-end trough or catch basin shall be provided to prevent oil dripping on cables and terminations.
  3. Free clearance shall be provided for hot stick operation of bayonet fuses.
  4. Bayonet fuses with isolation links shall be sized in accordance with Table 3.

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TABLE 3  
Transformer Fusing  
(Bayonet with Isolation Link)

KVA	<u>Rating</u>
25	3
50	8
75	15
100	15
167	20

- d. Provide an externally operated load break oil rotary (LBOR) switch for loop or radial feed on the primary side.
- e. All transformers covered by this specification shall have an automatic pressure relief valve installed above the hottest temperature oil level in the low voltage compartment, near the right hand most edge to the right of the top pushing to prevent oil dripping on cables and terminations and to prevent spraying.

## 9.0 CONSTRUCTION

- 9.1 The transformer shall consist of a welded transformer tank which shall be sealed with a welded cover. The enclosure, tank, doors and base of the transformer (the part that makes contact with the mounting surface) shall be made of Type 304L stainless steel.
- 9.2 The transformer shall be equipped with a flip top hood with heavy duty 3/8" removable stainless steel hinge pins. The high and low voltage compartment including hood, hinges, base and other exterior parts and accessories on the high and low voltage compartment shall be made of Type 304L stainless steel.
- 9.3 The manufacturer shall identify the type of steel and the thickness of the metal in inches or in gage size, in which case the gage name shall be specified.
- 9.4 The compartment with separable insulated high voltage connectors shall be covered by a single door.
- 9.5 No part of the transformer shall allow deformation or standing water. The top of the transformer shall be convex so water will run off the top.
- 9.6 The transformer shall have an oil level gauge, fill plug, drain valve, and self-actuating pressure relief device.
- 9.7 An indication shall be provided for signifying the correct oil level at 25° C if fill plug is not at this level.
- 9.8 Bushings and Terminals
- a. High voltage separable insulated connector bushing.

EFFECTIVE DATE:

4/2/18

ISSUED:



APPROVED:



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1. Integral bushings are required. The Supplier shall provide approved load break bushing insert, Elastimold 1601A3R or approved equal.
  2. Bushings shall be bonded to tank having a maximum resistance between high voltage bushing shielding and tank of 5000 ohms.
  3. Weatherproof protective caps shall be installed to remain in position during shipping and storage and not deteriorate prior to installation of transformer.
- b. The low voltage neutral shall be fully insulated and provided with a connected, removable neutral ground strap, which shall be connected so as not to impair the bolted secondary connections.
1. Low voltage terminals shall be NEMA four (4) hole spade for bolting copper terminal lugs.
  2. Low voltage terminals shall be plated for copper or aluminum cable terminations.
- c. The transformer shall have high and low voltage bushings which are externally clamped and replaceable without requiring access to the inside of the tank.
- d. Ground nuts for grounding connection shall be provided with ground connector for #4 to 2/0 copper wires.

#### 9.9 Security Requirements

Access to the transformer compartment shall be secured by a minimum of two independent locking arrangements.

- a. The transformer locking design shall meet the requirements of the Western Underground Committee Guide 2.13, latest revision, "Security for Pad Mounted Equipment Enclosures." A pentahead bolt design is not required by GPA.
- b. The transformer shall be designed to prevent wire entry and pass the following production quality control and receiving inspection test procedure:
  1. Any length of #12 AWG medium hard drawn solid bare copper wires shall be inserted into each opening until the wire enters the compartment or reaches an obstacle.
  2. If the wire reaches an obstacle, it can be bent and extended a maximum of three times at which time it shall be considered that the wire cannot be inserted into the enclosure.
  3. Entry of the wire into a compartment shall constitute a lack of tamper resistance and shall be cause for rejection. It is not necessary for the wire to actually contact energized components since entry into the compartment can establish potential contact conditions.
- c. The locking design shall be adequately sized for a standard padlock. The padlock shall not protrude beyond the front of the hood when installed. Hexagonal head bolts shall be

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Y2 inch and shall be of non-corrosive metal.

#### 9.10 Finish Requirements

- a. The tank, compartment and all appurtenances shall be resistant to impact and corrosion under normal operating conditions in Guam's salt air environment.
  1. The total external dry-film thickness of the paint shall be 3.5 mils minimum or equivalent protection and 2.0 mils minimum on the interior compartment surfaces.
  2. All mating surfaces shall be designed to prevent degradation of corrosion protection e.g.; abrasion and impact. Mating surfaces at sill/hood junction shall be designed to prevent standing water corrosion.
  3. Surfaces in contact with, and a minimum of two inches above, the mounting surface shall be designed or treated to be resistant to corrosion and abrasion when unit is skidded and slid into place on the mounting pad.
- b. The transformer shall withstand the following environmental tests for 2000 hours:
  1. ASTM B117, Standard Method of Salt Spray (Fog) Testing.
  2. Ultraviolet Test, per ASTM D822, Standard Recommended Practice for Operating Light and Water Exposure Apparatus (Carbon-Arc type) for testing paint, varnish, lacquer and related products (ASTM G23 TypeD or better).

#### 9.11 Transformer Identification and Labeling Requirements

- a. High voltage and low voltage terminal designations shall be located directly above their respective terminals.
- b. Transformer KVA rating, designated high voltage nameplate and designated low voltage nameplate shall be located inside the door and plainly visible with door open.
- c. Signs shall be yellow stenciled or approved decals. Decals shall have yellow printing on a black or clear background, or black printing on a yellow background, reverse printed on Scotch Cal material with pressure sensitive adhesive or an equivalent approved by GPA Engineering.
- d. Nameplate
  1. The nameplate shall be made of corrosion resistant material and shall comply with applicable industry standards for distribution transformers.
  2. The nameplate shall be permanent showing all of the required information, including KVA, voltage rating, ratio, BIL, weight, winding material, month and year of manufacture, impedance, high voltage and low voltage material, etc.
  3. The nameplate shall have rounded corners, and shall not be mounted more

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than W' from the surface so as not to constitute a personnel hazard during bare hand secondary make up.

#### 10.0 QUALITY CONTROL

- 10.1. The Supplier shall have a quality control program to ensure compliance with the requirements of this specification. The program shall be documented and available for GPA's review if requested.
- 10.2. Documentation of the quality control program shall indicate where in the production and manufacturing process the quality checks are taken, describe the purpose of the checks, and describe the nature of the check, e.g. if check is visual only or if electrical or mechanical testing is used.

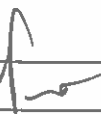
#### 11.0 PACKING AND SHIPPING

- 11.1. The supplier shall have adequate work and inspection instructions for handling, storage, preservation, packaging and shipping to protect the quality of the transformer and all attachments and to prevent damage, loss and deterioration of the transformer and its appurtenances.
- 11.2. The transformer shall be placed and crated with suitable material to prevent damage and injury during shipment and handling operations.
- 11.3. The transformer shall be securely blocked to prevent shifting during transit.

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## Appendix A

**PAD-MOUNTED TRANSFORMER INFORMATION SHEET**

NOTE: Please complete the product information and provide the required documents. Incomplete information shall be cause for rejection.

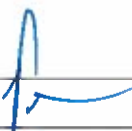
Product Information			
1.	Transformer Phase		
2.	Primary Voltage		
3.	Secondary Voltage		
4.	Transformer kVA Size		
5.	Insulation Class Rating		
6.	Primary Voltage BIL Rating		
7.	Feed Type	Loop   Radial	
8.	Impedance		
9.	Bay-O-Net	Quantity :	Yes No
10.	Load Break Oil Rotary Switch (On/Off)		Yes No
11.	Auto Pressure Relief Valve		Yes No
12.	Drain Plug/Valve		Yes No
13.	Fill Plug		Yes No
14.	Ground Strap		Yes No
15.	Ground Connector (2 ca.)		Yes No
16.	Tap Changer		Yes No
17.	Are all parts of the transformer such as hood, doors, hinges, tank, base and other parts and accessories made of Type 304L Stainless Steel?		Yes No
18.	Flip Top Hood		Yes No
19.	Doors		Yes No
20.	Hinges and Pins		Yes No
21.	Base and Sill		Yes No
22.	High/ Low Divider (Removable)		Yes No
23.	Transformer Base		Yes No
24.	Is there a Convex Top		Yes No
25.	Spade Terminal		

Required Documents			
1.	Nameplate Data		Yes No
2.	Connection Diagrams		Yes No
3.	Guaranteed total loss at 100% voltage and load		Yes No
4.	Guaranteed no-load loss at rated voltage		Yes No
5.	Shop Drawings		Yes No
6.	Low voltage circuit breaker time-current characteristics curve		Yes No

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INVITATION FOR BID NO.: Re-Bid GPA-073-20  
Requisition No.: 34318

NO.	DESCRIPTION	QTY:	U/I:	UNIT PRICE:	TOTAL PRICE:
2.0	750 kVA Pad Mounted Transformer	3	Each	\$ _____	\$ _____

**COMPLY / NON-COMPLIANCE:**

**A. SPECIFICATIONS:**

A.1 – Three-Phase, Dead-Front, 3 Bushing Radial Feed, Insulation Class 15 kV, BIL 95 kV, External Tap Changer, External Load Break Oil Rotary Switch (LBOR) Primary Voltage 13.8 kV, Secondary Voltage 120/208 V.

A.2 – All parts of the transformer such as hood, doors, hinges, tank, compartment, base, radiator, and other accessories shall be made of type 304L stainless steel.

As per GPA Specifications No.: E-004 Revision 9  
GPA Index No.: E4075013802020B-3

**B. SAFETY DATA SHEET (SDS):**

B.1 - Provide consignee with 'SAFETY DATA SHEET' when making deliveries to avoid rejection.

**C. LOSS EVALUATION:**

C.1 - Bid award for pad mounted transformers shall be based on the Total Cost of Ownership (TCO) and all other requirements as specified in GPA Specification E-003, Revision 10, Section 6.3 and GPA Specification E-004, Revision 9, Section 6.3.

**D. MARKING REQUIREMENTS:**

D.1 - Stencil 1" GPA Index No./ Purchase Order No./ Bid No./ Serial No. and Date of MFG. (DO NOT OBLITERATE MFG LABEL)

D.2 - Manufacturer Serial No. shall be shown on all delivery receipts and invoices.

D.3 - All transformers shall have a weather resistant decal certifying NON-PCB.

D.4 – Vendors are to provide a user's manual and certified laboratory test report for every transformer delivered.

D.5 – Vendors are responsible to de-van materials from containers.

D.6 – Vendors are responsible to provide a means to off load transformers that are 750 kVA or larger.

D.7 – Transformers shall meet all U.S. Department of Energy requirements.

\*\*APPROVED EQUAL TO OR BETTER\*\*

All deviations shall be identified referencing the Section and Sub-Section(s) from the attached GPA Specification.

**NOTE:**

Notwithstanding the fact that this contract was written by one (1) party, it will be construed that it was written by two (2) parties.

**REMARKS / DEVIATIONS:**

**DELIVERY REQUIREMENT:**

18 Weeks After Approved Drawings by Guam Power Authority Engineering

Reasonable delivery extension requests for this specific bid will be duly considered with the supporting documentation however, such requests are not guaranteed approval due to critical and urgent need of the materials to support the Guam Power Authority's needs.

TO BE COMPLETED BY BIDDER:

MANUFACTURED/BRAND NAME: \_\_\_\_\_


CAT. NO. / MODEL NO.: \_\_\_\_\_

PLACE OF ORIGIN: \_\_\_\_\_


EXPORT ABROAD: \_\_\_\_\_

TIME OF DELIVERY AFTER RECEIPT OF  
PURCHASE ORDER: \_\_\_\_\_

Specifications Generated/Reviewed by:


 \_\_\_\_\_ 4/30/2021  
JANET PANGELINAN Date  
(A) Inventory Management Officer

Specifications Concurred by:

 \_\_\_\_\_ 05/03/2021  
for JAMIE LYNN C. PANGELINAN Date  
Supply Management Administrator

Specifications Approved by:

\_\_\_\_\_  
BEATRICE P. LIMTIACO Date  
Assistant General Manager of Administration

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**GUAM POWER AUTHORITY**  
**P.O. BOX 2977**  
**HAGATNA, GUAM 96932**

**TRANSMISSION & DISTRIBUTION SPECIFICATION**  
**Specification No. E-004**

FOR

**THREE PHASE PAD MOUNTED**  
**DISTRIBUTION TRANSFORMER**

EFFECTIVE DATE:

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ISSUED:



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**THREE PHASE PAD MOUNTED  
DISTRIBUTION TRANSFORMER**

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### 1.0 SCOPE

- 1.1. This specification covers GPA requirements for three-phase, dead-front radial feed, 60 Hz, mineral oil filled, 65° C rise pad mounted type distribution transformers for use with separable insulated high-voltage connectors.
- 1.2. The transformer is intended for use in tropical weather conditions with a corrosive sea air atmosphere, sustained wind strengths of 155 MPH with gusts to 180 MPH and subject to moderate and severe earthquakes.

### 2.0 APPLICABLE PUBLICATIONS


The transformers shall meet the requirements of the following standards, including the latest revisions with respect to material, design and tests.

- 2.1. AMERICAN NATIONAL STANDARDS INSTITUTE, INC. (ANSI)
  - C57** Requirements for Distribution Transformers
  - C68.1** Techniques for Dielectric Tests
  - C76** Apparatus Bushings
- 2.2. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) STANDARDS
  - TR 1** Transformers, Regulators and Reactors
- 2.3. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) STANDARDS
  - D3487** Mineral Insulating Oil used in Electrical Apparatus
  - D92** Manual Cleveland Flashpoint Tester
  - D877** Dielectric Breakdown Voltage of Insulating Liquids
- 2.4. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
  - 70** National Electrical Code
  - 70B** Electrical Equipment Maintenance
- 2.5. FEDERAL SPECIFICATIONS
  - TT-P-636D** Red or Brown Iron-Oxide Primer for Galvanized Metal Surfaces

### 3.0 DEVIATIONS AND NON-CONFORMANCE REQUIREMENTS

- 3.1. Deviations from this specification or changes in the material or design after the purchase order has been placed must be approved by the GPA Engineering department and acknowledged by a Purchase Order Amendment issued by GPA.
- 3.2. Units received with deviations or non-conformances that are not acknowledged per Section 3.1 are subject to rejection. The Supplier of rejected units is responsible for any corrective action including but not limited to materials, labor and transportation necessary to dispose of or make the units conform to the specification.

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- 3.3. Notification of defective units discovered before or after installation that are believed to be inherent to manufacturing problems or workmanship shall be made and forwarded to the Supplier. The description of the item, documentation of the problem and the described information, disposition and/or follow-up (as appropriate) that GPA expects from the Supplier will be specified. The Supplier's response shall be made within thirty (30) days unless an extension IS acknowledged and approved in writing by the GPA Manager of Engineering.
- 3.4. Warranty—the Supplier shall warrant the distribution transformer to be free from defects in material and workmanship under normal use and service conditions. The term of the Warranty shall be the lesser of twelve (12) months from the date of initial installation or eighteen (18) months from date of sale/purchase.
- 3.5. Statement of Compliance - The Supplier shall provide a signed statement verifying that the products being supplied fully comply with the specifications and drawings. Items not in full compliance with the specification and drawings will be identified with a description of the deficiency and any proposed substitutions. Items not in full compliance with the specifications and drawings must be approved by the GPA Engineering Department, as described in Section 3.1.

#### 4.0 SUBMITTALS

- 4.1. The bidder shall provide with their bid the following data:
- Nameplate Data
  - Connection diagrams
  - Guaranteed total loss at 100% voltage and load
  - Guaranteed no-load loss at rated voltage
  - Shop Drawings
  - Low voltage circuit breaker time-current characteristics curve
- 4.2. Information for shop drawings shall include:
- Mounting dimensions
  - Location of equipment, devices and terminals
  - Weights
  - Number of gallons of oil
  - Nameplate Data
  - Connection diagrams
  - Guaranteed total loss at 100% voltage and load
  - Guaranteed no-load loss at rated voltage
- 4.3. After award of contract, shop drawings indicating details of construction and the outline of all connectors shall be submitted to GPA Engineering for review and approval.
- 4.4. GPA shall be allowed two (2) weeks to review and approve drawings provided in Section 4.2 without affecting the shipping date. Delays in delivery due to drawings that are disapproved during this review period are the responsibility of the Supplier.
- 4.5. Drawings returned to the Supplier as approved shall be considered authorization to proceed with the work. The approval of GPA shall in no way abrogate the requirements of this specification.

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### 5.0 CERTIFIED LABORATORY TEST REPORTS

- 5.1. Certified tests shall be conducted in accordance with ANSI C57 plus a standard production impulse test. Transformers shall have passed all required tests demonstrating compliance with the design requirements and industry standards.
- 5.2. The Supplier shall also conduct tests to determine transformer load and no-load losses. This test data shall be certified as true and correct by an independent testing firm and submitted to the Authority.
- 5.3. The Supplier shall furnish two (2) copies of the certified test reports of all tests covered by this specification to the GPA Manager of Engineering prior to shipment.

### 6.0 LOSS EVALUATION

- 6.1. Each bidder shall submit with his bid the guaranteed load and no-load losses on each transformer submitted. Guaranteed load losses shall be provided at 85° C and shall be stated at the nominal voltage tap positions.
- 6.2. Guaranteed losses will be evaluated by GPA to determine the equivalent cost for owning and operating each transformer. The value of the transformer no-load and load losses will be determined by GPA at the time of purchase to arrive at the projected Total Cost of Ownership (TCO) as follows:

$$TCO = IC + A \times (P_o + P_{co}) + B \times (P_k + P_{cs} - P_{co}) \text{ Where:}$$

- $P_o$  = No Load Losses (NLL) in kW (Provided by Bidder)  
 $P_{co}$  = Power Consumption of Cooling Equipment at No Load Operation (Zero Power Consumption of Cooling Equipment, unless otherwise provided)  
 $P_k$  = Load Losses (LL) in kW (Provided by Bidder)  
 $P_{cs}$  = Power Consumption of Cooling Equipment at Rated Power Operation (Zero Power Consumption of Cooling Equipment, unless otherwise provided)  
 $IC$  = Initial Transformer Cost (Provided by Bidder)  
 $A$  =  $t \times c_{n/2} \times (1 - (1/(1+i))^n) / i$   
 $B$  =  $u \times t \times c_{n/2} \times (1 - (1/(1+i))^n) / i$   
 $u$  =  $k^2$   
 $t$  = Operating Hours per Year (24 Hours/Day X 365 Days/Year = 8760 Hours)  
 $i$  = Discount Rate (5% Used By GPA for Money Certificates Issued)  
 $n$  = Expected Lifetime of the Transformer in Years (GPA Uses 25 Years)  
 $c_{n/2}$  = Is the Cost of energy at the Mid-Life of the Transformer

Note: If Annual increase of energy price is assumed to be constant,  $c_{n/2}$  can be calculated using C, j & n

- $c_{n/2}$  =  $(C + (C \times (1+j)^n)) / 2$   
 $C$  = Is the Initial Cost of Energy (\$) (Calculated From the weighted average energy rate from the Revenue Report with Fuel-Non Fuel Data Dec 2017)  
 $j$  = Is the Annual Increase of Energy Price (%) (Calculated from the Base Rate Increases from 1998 to 2018)  
 $k$  = Is the Average Loading of the Transformer During its Lifetime (Calculated using data From the GPA Distribution Analysis 2010-2015)

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- 6.3. A Band of Equivalence method will be used when evaluating the total cost for owning and operating each transformer. Transformers with a TOC that is within 5% of the transformer with the lowest TOC will be considered equivalent. The transformer with the lowest purchase price within this band shall be considered the lowest bid.
- 6.4. GPA will review actual, certified load and no-load losses for each transformer. In the event the actual losses exceed the guaranteed losses, the Supplier's contract will be reduced. The price reduction shall be the difference between the guaranteed losses and the actual losses at the rates indicated above. Load and no-load loss penalties will be assessed independently. Bonuses will not be awarded for actual losses which are less than guaranteed. Any transformer with no-load losses or total losses greater than the tolerances indicated in ANSI C57 shall be rejected by the Authority.

### 7.0 RATINGS

- 7.1. The primary voltage rating is 13,800 V.
- 7.2. Secondary Voltage ratings shall be either 120/208Y or 277/280Y volts as required.
- 7.3. The insulation class is 15 kV and the primary-voltage BIL is 95 kV.
- 7.4. The required transformer kVA ratings will be indicated on the purchase order. The following kVA ratings are standard for GPA pad mounted transformers:  
45, 75, 150, 225, 300, 500, 750, 1000, 1500, and 2000
- 7.5. The transformer impedance shall be as indicated in Table 1. ANSI tolerances may be applied to these values. The impedance value shall be provided on the nameplate.

TABLE 1  
Transformer Impedance


Size (KVA)	120/208Y	277/480Y
45	1.3	1.3
75	1.3	1.3
112.5	1.3	1.3
150	1.3	1.3
225	1.6	1.3
300	2.2	1.3
500	3.5	2.2
750-2000	5.75	5.75

- 7.6. The transformer shall meet the latest energy efficiency standards for liquid immersed distribution pad mounted transformers required by the United States Department of Energy.
- 7.7. The Average Winding Rise shall be 65°C.

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## 8.0 DESIGN

### 8.1. Taps

- a. Unless otherwise specified, taps shall be furnished on the high voltage winding. Tap ratios shall conform to ANSI C57 for 13.8 kV transformers, with two 2½ % taps above and below the rated voltage.
- b. Taps shall be full KVA rated and have short circuit capability noted in ANSI C57.
- c. The selection of the tap desired shall be obtained through the operation of an externally operated switch.
  1. The switch shall be designed for de-energized operation.
  2. The switch assembly shall be snap action or the handle designed to permit checking that a switching operation has been completed.
  3. The switch assembly shall be designed to prevent accidental operation.
  4. Tap positions shall be clearly marked near the switch handle and on the transformer nameplate.
  5. A clearly legible yellow sign in accordance with 9.12.c shall be located adjacent to the handle which identifies it as the tap changer handle and includes a warning to not operate energized.
- d. The tap changer operating handle shall be located either in the low-voltage compartment, above the low-voltage bushings or hot stick operable at the high voltage compartment without interfering with installed primary cables.

### 8.2 Protection

- a. Transformers shall be supplied with primary bayonet-type, oil-immersed fuses with isolation links.
- b. Fuse links shall be replaceable without requiring cutting or grinding of the transformer tank.
- c. Bayonet fuses with isolation links shall meet the following requirements:
  1. A yellow sign in accordance with 9.12.c reading "CAUTION READ BAYONET OPERATING INSTRUCTION BEFORE RE-FUSING" shall be located adjacent to bayonet fuses.
  2. A closed-end trough or catch basin shall be provided to prevent oil dripping on cables and terminations.
  3. Free clearance shall be provided for hot stick operation of bayonet fuses.
  4. Bayonet fuses with isolation links shall be sized in accordance with Table 3.

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TABLE 3  
Transformer Fusing  
(Bayonet with Isolation Link)

KVA	Rating
45	3
75	6
150	12
225	15
300	25
500	30
750	C14
1000	C14
1500	C17
2000	C17

- d. Provide an externally operated load break oil rotary (LBOR) switch for radial feed on the primary side.
- e. All transformers covered by this specification shall have an automatic pressure relief valve installed above the hottest temperature oil level in the low voltage compartment, near the right hand most edge to the right of the top bushing to prevent oil dripping on cables and terminations and to prevent spraying.

## 9.0 CONSTRUCTION

- 9.1 The transformer shall consist of a welded transformer tank which shall be sealed with a welded cover. The enclosure, tank, doors and base of the transformer (the part that makes contact with the mounting surface) shall be made of Type 304L stainless steel.
- 9.2 The high and low voltage compartment including doors, door handles, hinges, base and other exterior parts and accessories on the high and low voltage compartment shall be made of Type 304L stainless steel.
- 9.3 The manufacturer shall identify the type of steel and the thickness of the metal in inches or in gage size, in which case the gage name shall be specified.
- 9.4 The transformer shall be supplied with a high and low voltage compartment barrier. The compartment barrier shall be removable.
- 9.5 The compartment with separable insulated high voltage connectors shall be covered by a single door.
- 9.6 No part of the transformer shall allow deformation or standing water. The top of the transformer shall be convex so water will run off the top.
- 9.7 The transformer shall have an oil level gauge, fill plug, drain valve, and self-actuating pressure

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relief device.

9.8 An indication shall be provided for signifying the correct oil level at 25° C if fill plug is not at this level.

9.9 Bushings and Terminals

a. High voltage separable insulated connector bushing.

1. Integral bushings are required. The Supplier shall provide approved load break bushing insert, Elastimold 1601A3R or approved equal.
2. Bushings shall be bonded to tank having a maximum resistance between high voltage bushing shielding and tank of 5000 ohms.
3. Weatherproof protective caps shall be installed to remain in position during shipping and storage and not deteriorate prior to installation of transformer.

b. The low voltage neutral shall be fully insulated and provided with a connected, removable neutral ground strap, which shall be connected so as not to impair the bolted secondary connections.

1. Low voltage terminals shall be six-hole spade for 45 to 225 KVA transformers and eight-hole spade for 300 to 2000 KVA transformers for bolting copper terminal lugs.
2. Low voltage terminals shall be plated for copper or aluminum cable terminations.

c. The transformer shall have high and low voltage bushings which are externally clamped and replaceable without requiring access to the inside of the tank.

d. Ground nuts for grounding connection shall be provided with ground connector for #4 to 2/0 copper wires.

9.10 Security Requirements

Access to the transformer compartment shall be secured by a minimum of two independent locking arrangements.

a. The transformer locking design shall meet the requirements of the Western Underground Committee Guide 2.13, latest revision, "Security for Pad Mounted Equipment Enclosures." A pentahead bolt design is not required by GPA.

b. The transformer shall be designed to prevent wire entry and pass the following production quality control and receiving inspection test procedure:

1. Any length of #12 AWG medium hard drawn solid bare copper wires shall be inserted into each opening until the wire enters the compartment or reaches an obstacle.
2. If the wire reaches an obstacle, it can be bent and extended a maximum

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of three times at which time it shall be considered that the wire cannot be inserted into the enclosure.

3. Entry of the wire into a compartment shall constitute a lack of tamper resistance and shall be cause for rejection. It is not necessary for the wire to actually contact energized components since entry into the compartment can establish potential hazardous conditions.
- c. The locking design shall be adequately sized for a standard padlock. The padlock shall not protrude beyond the front of the hood when installed. Hexagonal head bolts shall be Y2 inch and shall be of non-corrosive metal.

#### 9.11 Finish Requirements

- a. The tank, compartment and all appurtenances shall be resistant to impact and corrosion under normal operating conditions in Guam's salt air environment.
  1. The total external dry-film thickness of the paint shall be 3.5 mils minimum or equivalent protection and 2.0 mils minimum on the interior compartment surfaces.
  2. All mating surfaces shall be designed to prevent degradation of corrosion protection e.g. abrasion and impact. Mating surfaces at sill/hood junction shall be designed to prevent standing water corrosion.
  3. Surfaces in contact with, and a minimum of two inches above, the mounting surface shall be designed or treated to be resistant to corrosion and abrasion when unit is skidded and slid into place on the mounting pad.
- b. The transformer shall withstand the following environmental tests for 2000 hours:
  1. ASTM B117, Standard Method of Salt Spray (Fog) Testing.
  2. Ultraviolet Test, per ASTM D822, Standard Recommended Practice for Operating Light and Water Exposure Apparatus (Carbon-Arc type) for testing paint, varnish, lacquer and related products (ASTM G23 Type D or better).


#### 9.12 Transformer Identification and Labeling Requirements

- a. High voltage and low voltage terminal designations shall be located directly above their respective terminals.
- b. Transformer KVA rating, high voltage nameplate designated voltage and low voltage nameplate designated voltage shall be located inside the door and plainly visible with door open.
- c. Signs shall be yellow stenciled or approved decals. Decals shall have yellow printing on a black or clear background, or black printing on a yellow background, reverse printed on Scotch Cal material with pressure sensitive adhesive or an equivalent

EFFECTIVE DATE: 4/2/18

ISSUED: [Signature]

APPROVED: [Signature]

 <b>GUAM POWER AUTHORITY</b>	<b>SPECIFICATION No. E-004</b>	Page 11 of 12
		April 3, 2018
<b>PREPARED BY THE ENGINEERING DEPARTMENT</b>		REV. 9

approved by GPA Engineering.

d. Nameplate

1. The nameplate shall be made of corrosion resistant material and shall comply with applicable industry standards for distribution transformers.
2. The nameplate shall be permanent showing all of the required information, including KVA, voltage rating, ratio, BIL, weight, winding material, month and year of manufacture, impedance, high voltage and low voltage material, etc.
3. The nameplate shall have rounded corners, and shall not be mounted more than W' from the surface so as not to constitute a personnel hazard during bare hand secondary make up.

#### 10.0 QUALITY CONTROL

- 10.1. The Supplier shall have a quality control program to ensure compliance with the requirements of this specification. The program shall be documented and available for GPA's review if requested.
- 10.2. Documentation of the quality control program shall indicate where in the production and manufacturing process the quality checks are taken, describe the purpose of the checks, and describe the nature of the check, e.g. if check is visual only or if electrical or mechanical testing is used.

#### 11.0 PACKING AND SHIPPING

- 11.1. The supplier shall have adequate work and inspection instructions for handling, storage, preservation, packaging and shipping to protect the quality of the transformer and all attachments and to prevent damage, loss and deterioration of the transformer and its appurtenances.
- 11.2. The transformer shall be placed and crated with suitable material to prevent damage and injury during shipment and handling operations.
- 11.3. The transformer shall be securely blocked to prevent shifting during transit.

EFFECTIVE DATE:


4/3/18

ISSUED:



APPROVED:



 <b>GUAM POWER AUTHORITY</b>	<b>SPECIFICATION No. E-004</b>	<b>Page 12 of 12</b>
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### Appendix A

### PAD-MOUNTED TRANSFORMER INFORMATION SHEET

NOTE: Please complete the product information and provide the required documents. Incomplete information shall be cause for rejection.

Product Information			
1.	Transformer Phase		
2.	Primary Voltage		
3.	Secondary Voltage		
4.	Transformer kVA Size		
5.	Insulation Class Rating		
6.	Primary Voltage BIL Rating		
7.	Feed Type		Loop Radial
8.	Impedance		
9.	Bay-O-Net	Quantity :	Yes No
10.	Load Break Oil Rotary Switch (On/Off)		Yes No
11.	Auto Pressure Relief Valve		Yes No
12.	Drain Plug/Valve		Yes No
13.	Fill Plug		Yes No
14.	Ground Strap		Yes No
15.	Ground Connector (2 ea.)		Yes No
16.	Tap Changer		Yes No
17.	Are all parts of the transformer such as hood, doors, hinges, tank, base and other parts and accessories made of Type 304L Stainless Steel?		Yes No
18.	Flip Top Hood		Yes No
19.	Doors		Yes No
20.	Hinges and Pins		Yes No
21.	Base and Sill		Yes No
22.	High/ Low Divider (Removable)		Yes No
23.	Transformer Base		Yes No
24.	Is there a Convex Top		Yes No
25.	Spade Terminal		

Required Documents			
1.	Nameplate Data		Yes No
2.	Connection Diagrams		Yes No
3.	Guaranteed total loss at 100% voltage and load		Yes No
4.	Guaranteed no-load loss at rated voltage		Yes No
5.	Shop Drawings		Yes No
6.	Low voltage circuit breaker time-current characteristics curve		Yes No

EFFECTIVE DATE:

4/3/18

ISSUED:

fo

APPROVED:

ja



# GUAM POWER AUTHORITY

ATURIDĀT ILEKTRESEDĀT GUĀHAN  
P.O.BOX 2977 • HAGĀTÑA, GUAM U.S.A. 96932-2977

Lourdes A. Leon Guerrero  
I Maga 'håga

Telephone Nos. (671) 648-3054/55 Fax: 648-3165

Joshua F. Tenorio  
I Sigundo Maga 'låhi

## BID BOND

NO.: \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS that \_\_\_\_\_, as

Principal Hereinafter called the Principal, and (Bonding Company), \_\_\_\_\_  
A duly admitted insurer under the laws of the Territory of Guam, as Surety, hereinafter called the Surety are  
Held firmly bound unto the Territory of Guam for the sum of \_\_\_\_\_ Dollars  
(\$ \_\_\_\_\_), for Payment of which sum will and truly to be made, the said Principal and the said  
Surety bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly  
by these presents.

WHEREAS, the Principal has submitted a bid for (identify project by number and brief description)

\_\_\_\_\_  
\_\_\_\_\_

NOW, THEREFORE, if the Territory of Guam shall accept the bid of the Principal and the Principal shall  
enter into a Contract with the Territory of Guam in accordance with the terms of such bid, and give such bond or  
bonds as may be specified in bidding or Contract documents with good and sufficient surety for the faithful  
performance of such Contract Documents with good and sufficient surety for the faithful performance of such  
Contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event  
of the failure of the Principal to enter such Contract and give such bond or bonds, if the Principal shall pay to the  
Territory of Guam the difference not to exceed the penalty hereof between the amounts specified in said bid and  
such larger amount for which the Territory of Guam may in good faith contract with another party to perform  
work covered by said bid or an appropriate liquidated amount as specified in the Invitation for Bids then this  
obligation shall be null and void, otherwise to remain full force and effect.

Signed and sealed this \_\_\_\_\_ day of \_\_\_\_\_ 2021.

\_\_\_\_\_  
(PRINCIPAL) (SEAL)

\_\_\_\_\_  
(WITNESS)

\_\_\_\_\_  
(TITLE)

\_\_\_\_\_  
(MAJOR OFFICER OF SURETY)

\_\_\_\_\_  
(MAJOR OFFICER OF SURETY)

\_\_\_\_\_  
(TITLE)

\_\_\_\_\_  
(TITLE)

\_\_\_\_\_  
(RESIDENT GENERAL AGENT)

SEE INSTRUCTIONS FOR SUPPORTING DOCUMENTS REQUIRED.



**INSTRUCTION TO PROVIDERS:**

NOTICE to all Insurance and Bonding Institutions:

The Bond requires the signatures of the Vendor, two (2) major Officers of the Surety and Resident General Agent, if the Surety is a foreign or alien surety.

When the form is submitted to the Guam Power Authority, it should be accompanied with copies of the following:

1. Current Certificate of Authority to do business on Guam issued by the Department of Revenue and Taxation.
2. Power of Attorney issued by the Surety to the Resident General Agent.
3. Power of Attorney issued by two (2) major officers of the Surety to whoever is signing on their behalf.

Bonds, submitted as Bid Guarantee, without signatures and supporting documents are invalid and Bids will be rejected.



# GUAM POWER AUTHORITY

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

## SPECIAL PROVISION FOR MAJOR SHAREHOLDERS DISCLOSURE AFFIDAVIT

All Bidders/Offerors are required to submit a current affidavit as required below. Failure to do so will mean disqualification and rejection of the bid/rfp.

5 GCA §5233 (Title 5, Section 5233) states:

"Section 5233 Disclosure of Major Shareholders. As a condition of submitting a bid or offer, any partnership, sole proprietorship or corporation doing business with the government of Guam shall submit an affidavit executed under oath that lists the name and address of any person who has held more than ten percent (10%) of the outstanding interest or shares in said partnership, sole proprietorship or corporation at any time during the twelve (12) month period immediately preceding submission of a bid, or, that it is a not for profit organization that qualifies for tax exemption under the Internal Revenue Code of the United States or the Business Privilege Tax law of Guam, Title 12, Guam Code Annotated, Section 26203©. With the exception of not for profit organizations, the affidavit shall contain the number of shares or the percentage of all assets of such partnership, sole proprietorship or corporation which have held by each such person during the twelve (12) month period. In addition, the affidavit shall contain the name and address of any person who has received or is entitled to receive a commission, gratuity or other compensation for procuring or assisting in obtaining business related to the bid or offer and shall also contain the amounts of any such commission, gratuity or other compensation. The affidavit shall be open and available to the public for inspection and copying."

1. If the affidavit is a copy, indicate the BID/RFP number and where it is filed.
2. Affidavits must be signed within 60 days of the date the bids or proposals are due.

MAJOR SHAREHOLDERS OF DISCLOSURE AFFIDAVIT

TERRITORY OF GUAM)

HAGATNA, GUAM )

I, undersign, \_\_\_\_\_,

(partner or officer of the company of, etc.)

being first duly sworn, deposes and says:

- 1. That the person who have held more than ten percent (10%) of the company's shares during the past twelve (12) months are as follows:

<u>Name</u>	<u>Address</u>	<u>Percentage of Shares Held</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Total number of shares		_____

- 2. Persons who have received or are entitled a commission, gratuity or other compensation for procuring or assisting in obtaining business related to the bid/rfp for which this Affidavit is submitted are as follows:

<u>Name</u>	<u>Address</u>	<u>Amount of Commission Gratuity or other Compensation</u>
_____	_____	_____
_____	_____	_____

Further, affiant sayeth naught.

Date: \_\_\_\_\_

Signature of individual if bidder/offeror is a sole Proprietorship; Partner, if the bidder/offeror is a Partnership Officer, if the bidder/offeror is a corporation.

Subscribe and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_,

20\_\_\_\_\_.

Notary Public \_\_\_\_\_

In and for the Territory of Guam

My Commission expires \_\_\_\_\_.

NON-COLLUSION AFFIDAVIT

Guam )  
 )ss:  
Hagatna )

I, \_\_\_\_\_ first being duly sworn, depose and say:  
(Name of Declarant)

1. That I am the \_\_\_\_\_ of \_\_\_\_\_,  
(Title) (Name of Bidding/RFP Company)
2. That in making the foregoing proposal or bid, that such proposal or bid is Genuine and not collusive or sham, that said bidder/offeror has not colluded, Conspired, connived or agreed, directly or indirectly, with any bidder or person, to put in a sham or to refrain from bidding or submitting a proposal and has not in any manner, directly or indirectly, sought by agreement or collusion, or communication or conference, with any person, to fix the bid of affiant or any other bidder, or to secure any overhead, project or cost element of said bid price, or of that of any bidder, or to secure any advantage against the GUAM POWER AUTHORITY or any person interested in the proposed contract; and
3. That all statements in said proposal or bid are true.

\_\_\_\_\_  
(Declarant)

SUBSCRIBED AND SWORN to me before this \_\_\_\_\_ day of \_\_\_\_\_, 2021

)Seal(

\_\_\_\_\_  
Notary Public  
In and for the Territory of Guam  
My Commission expires \_\_\_\_\_.

NO GRATUITIES OR KICKBACKS AFFIDAVIT

AFFIDAVIT  
(Offeror)

TERRITORY OF GUAM )

HAGATNA, GUAM )

SS:

\_\_\_\_\_, being first duly sworn, deposes and says:

As the duly authorized representative of the Offeror, that neither I nor of the Offeror’s officers, representatives, agents, subcontractors, or employees has or have offered, given or agreed to give any government of Guam employee or former employee, any payment, gift, kickback, gratuity or offer of employment in connection with Offeror’s proposal.

\_\_\_\_\_  
Signature of Individual if Proposer is a Sole Proprietorship;  
Partner, if the Proposer is a Partnership;  
Officer, if the Proposer is a Corporation

SUBSCRIBED AND SWORN to before me this \_\_\_\_ day of \_\_\_\_\_, 2021.

\_\_\_\_\_  
Notary Public  
In and for the Territory of Guam  
My Commission Expires:

ETHICAL STANDARDS AFFIDAVIT

AFFIDAVIT

(Proposer)

TERRITORY OF GUAM )

)

SS:

HAGATNA, GUAM )

)

\_\_\_\_\_, being first duly sworn, deposes and says:

That I am ( the Sole Proprietor, a Partner or Officer of the Offeror)

That Offeror making the foregoing Proposal, that neither he or nor of the Offeror's officers, representatives, agents, subcontractors, or employees of the Offeror have knowingly influenced any government of Guam employee to breach any of the ethical standards set forth in 5 GCA Chapter 5 Article 11, and promises that neither he nor any officer, representative, agent, subcontractor, or employee of Offeror will knowingly influence any government of Guam employee to breach any ethical standard set for in 5 GCA Chapter 5 Article 11.

\_\_\_\_\_  
Signature of Individual if Proposer is a Sole Proprietorship;  
Partner, if the Proposer is a Partnership;  
Officer, if the Proposer is a Corporation

SUBSCRIBED AND SWORN to before me this \_\_\_\_day of \_\_\_\_\_, 2021.

\_\_\_\_\_  
Notary Public  
In and for the Territory of Guam  
My Commission Expires:

DECLARATION RE-COMPLIANCE WITH U.S. DOL WAGE DETERMINATION

Procurement No.: \_\_\_\_\_

Name of Offeror Company: \_\_\_\_\_

\_\_\_\_\_ hereby certifies under penalty of perjury:

- (1) That I am \_\_\_\_\_ (the offeror, a partner of the offeror, an officer of the offeror) making the bid or proposal in the foregoing identified procurement;
- (2) That I have read and understand the provisions of 5 GCA § 5801 and § 5802 which read:

§ 5801. Wage Determination Established.

In such cases where the government of Guam enters into contractual arrangements with a sole proprietorship, a partnership or a corporation ('contractor') for the provision of a service to the government of Guam, and in such cases where the contractor employs a person(s) whose purpose, in whole or in part, is the direct delivery of service contracted by the government of Guam, then the contractor shall pay such employee(s) in accordance with the Wage Determination for Guam and the Northern Mariana Islands issued and promulgated by the U.S. Department of Labor for such labor as is employed in the direct delivery of contract deliverables to the government of Guam.

The Wage Determination most recently issued by the U.S. Department of Labor at the time a contract is awarded to a contractor by the government of Guam shall be used to determine wages, which shall be paid to employees pursuant to this Article. Should any contract contain a renewal clause, then at the time of renewal adjustments, there shall be made stipulations contained in that contract for applying the Wage Determination, as required by this Article, so that the Wage Determination promulgated by the U.S. Department of Labor on a date most recent to the renewal date shall apply.

§ 5802. Benefits.

In addition to the Wage Determination detailed in this Article, any contract to which this Article applies shall also contain provisions mandating health and similar benefits for employees covered by this Article, such benefits having a minimum value as detailed in the Wage Determination issued and promulgated by the U.S. Department of Labor, and shall contain provisions guaranteeing a minimum of ten (10) paid holidays per annum per employee.

- (3) That the offeror is in full compliance with 5 GCA § 5801 and § 5802, as may be applicable to the procurement referenced herein;

\_\_\_\_\_  
 Signature of Individual if Proposer is a Sole Proprietorship;  
 Partner, if the Proposer is a Partnership;  
 Officer, if the Proposer is a Corporation

SUBSCRIBED AND SWORN to before me this \_\_\_\_ day of \_\_\_\_\_, 2021.

\_\_\_\_\_  
 Notary Public  
 In and for the Territory of Guam  
 My Commission Expires:

**SPECIAL PROVISIONS**

**Restriction Against Sex Offenders Employed by Service Providers to Government of Guam from Working on Government of Guam Property**

GCA 5 §5253 Restriction Against Contractors Employing Convicted Sex Offenders from Working at Government of Guam Venues:

- (a) No person convicted of a sex offense under the provisions of Chapter 25 of Title 9 Guam Code Annotated, or an offense as defined in Article 2 of Chapter 28, Title 9 GCA in Guam, or an offense in any jurisdiction which includes, at a minimum, all of the elements of said offenses, or who is listed on the Sex Offender Registry, and who is employed by a business contracted to perform services for an agency or instrumentality of the government of Guam, shall work for his employer on the property of the Government of Guam other than public highway.
- (b) All contracts for services to agencies listed herein shall include the following provisions: (1) warranties that no person providing services on behalf of the contractor has been convicted of a sex offense under the provisions of Chapter 25 of Title 9 GCA or an offense as defined in Article 2 of Chapter 28, Title 9 GCA, or an offense in another jurisdiction with, at a minimum, the same elements as such offenses, or who is listed on the Sex Offender Registry; and (2) that if any person providing services on behalf of the contractor is convicted of a sex offense under the provisions of Chapter 25 of Title 9 GCA or an offense as defined in Article 2 of Chapter 28, Title 9 GCA or an offense in another jurisdiction with, at a minimum, the same elements as such offenses, or who is listed on the Sex Offender Registry, that such person will be immediately removed from working at said agency and that the administrator of said agency be informed of such within twenty-four (24) hours of such conviction.
- (c) Duties of the General Services Agency or Procurement Administrators. All contracts, bids, or Requests for Proposals shall state all the conditions in § 5253(b).
- (d) Any contractor found in violation of § 5253(b), after notice from the contracting authority of such violation, shall, within twenty-four (24) hours, take corrective action and shall report such action to the contracting authority. Failure to take corrective action within the stipulated period may result in the temporary suspension of the contract at the discretion of the contracting authority.

*SOURCE: Added by P.L. 28-024:2 ((Apr. 21, 2005). Amended by P.L. 28-098:2 (Feb. 7, 2006).*

\_\_\_\_\_  
Signature of Bidder      Date

Proposer, if an individual;  
Partner, if a partnership;  
Officer, if a corporation.

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 2021.

\_\_\_\_\_  
Notary Public





# GUAM POWER AUTHORITY

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

Lourdes A. Leon Guerrero  
 I Maga 'håga

Telephone Nos. (671) 648-3054/55 Fax: 648-3165

Joshua F. Tenorio  
 I Sigundo Maga 'låhi

---

Accountability · Impartiality · Competence · Openness · Value

---

## LOCAL PROCUREMENT PREFERENCE APPLICATION

Based on the law stipulated below, please place a checkmark or an "X" on the block indicating the item that applies to your business:

5GCA, Chapter 5, Section 5008, "Policy in Favor of Local Procurement" of the Guam Procurement Law states:

All procurement of supplies and services shall be made from among businesses licensed to do business on Guam and that maintains an office or other facility on Guam, whenever a business that is willing to be a contractor is:

- ( ) (a) A licensed bonafide manufacturing business that adds at least twenty-five percent (25%) of the value of an item, not to include administrative overhead, suing workers who are U.S. Citizens or lawfully admitted permanent residents or nationals of the United States, or persons who are lawfully admitted to the United States to work, based on their former citizenship in the Trust Territory for the Pacific Islands; or
- ( ) (b) A business that regularly carries an inventory for regular immediate sale of at least fifty percent (50%) of the items of supplies to be procured; or
- ( ) (c) A business that has a bonafide retail or wholesale business location that regularly carries an inventory on Guam of a value of at least one half of the value of the bid or One Hundred Fifty Thousand Dollars (\$150,000.0) whichever is less, of supplies and items of a similar nature to those being sought; or
- ( ) \*(d) A service actually in business, doing a substantial business on Guam, and hiring at least 95% U.S. Citizens, lawfully admitted permanent residents or national of the Unites States, or persons who lawfully admitted to the United States to work, based on their citizenship in any of the nations previously comprising the Trust Territory of the Pacific Islands.

- Bidders indicating qualification under (d) may be considered QUALIFIED for the Local Procurement Preference only if the Government's requirement is for service. Service is defined Pursuant to 5 GCA Government Operations Subparagraph 5030 entitled DEFINITIONS under Chapter 5 of the Guam Procurement Law.

1. I \_\_\_\_\_, representative for \_\_\_\_\_, have read the requirements of the law cited above and do hereby qualify and elect to be given the LOCAL PROCUREMENT PREFERENCE for Bid No.: GPA \_\_\_\_\_. By filling in this information and placing my signature below, I understand that the Guam Power Authority will review this application and provide me with a determination whether or not the 15% preference will be applied to this bid.
2. I \_\_\_\_\_, representative for \_\_\_\_\_, have read the requirements of the law cited above, and do not wish to apply for the Local Procurement Preference for Bid No.: GPA \_\_\_\_\_.

\_\_\_\_\_  
 Bidder Representative Signature

\_\_\_\_\_  
 Date

**NOTE:**

*Prospective Bidders not completing this form will automatically be not considered for Local Procurement Preference. Non-completion of this form is not a basis for rejection of the bid or proposal.*

## GOVERNMENT OF GUAM

### GENERAL TERMS AND CONDITIONS

#### SEALED BID SOLICITATION AND AWARD

**Only those Boxes checked below are applicable to this bid.**

1. **AUTHORITY:** This solicitation is issued subject to all the provision of the Guam Procurement Act (5GCA, Chapter 5) And the Guam Procurement Regulations (copies of both are available at the Office of the Complier of laws, Department of Law, copies available for inspection at the Guam Power Authority). It requires all parties involved in the Preparation, negotiation, performance, or administration of contracts to act in good faith.
2. **GENERAL INTENTION:** Unless otherwise specified, it is the declared and acknowledged intention and meaning of these General Terms and conditions for the bidder to provide the Government of Guam (Government) with specified services or with materials, supplies or equipment completely assembled and ready for use.
3. **TAXES:** Bidders are cautioned that they are subject to Guam Income Taxes as well as all other taxes on Guam Transactions. Specific information on taxes may be obtained from the Director of Revenue and Taxation.
4. **LICENSING:** Bidders are cautioned that the Government will not consider for award any offer submitted by a bidder who has not complied with the Guam Licensing Law. Specific information on licenses may be obtained from the Director of Revenue and Taxation.
5. **LOCAL PROCUREMENT PREFERENCE:** All procurement of supplies and services where possible, will be made from among businesses licensed to do business on Guam in accordance with section 5008 of the Guam Procurement Act (5GCA, Chapter 5) and Section 1-104 of the Guam Procurement Regulations.
6. **COMPLIANCE WITH SPECIFICATIONS AND OTHER SOLICITATION REQUIREMENTS:** Bidders shall comply with all specifications and other requirements of the Solicitation.
7. **“ALL OR NONE” BIDS:** Unless otherwise allowed under this Solicitation. “all or none” bids may be deemed to be non-responsive. If the bid is so limited, the Government may reject part of such proposal and award on the remainder.

**NOTE:** By checking this item, the Government is requesting all of the bid items to be bided or none at all. **The Government will not award on an itemized basis.** Reference: Section 3-101.06 of the Guam Procurement Regulations.

8. **INDEPENDENT PRICE DETERMINATION:** The bidder, upon signing the Invitation for Bid, certifies that the prices in his bid were derived at without collusion, and acknowledge that collusion and anti-competitive practices are prohibited by law. Violations will be subject to the provision of Section 5651 of that of the Guam Procurement Act. Other existing civil, criminal or administrative remedies are not impaired and may be in addition to the remedies in Section 5651 of the Government code.
9. **BIDDER’S PRICE:** The Government will consider not more than two (2) (Basic and Alternate) item prices and the bidder shall explain fully each price if supplies, materials, equipment, and/or specified services offered comply with specifications and the products origin. Where basic or alternate bid meets the minimum required specification, cost and other factors will be considered. Failure to explain this requirement will result in rejection of the bid.
10. **BID ENVELOPE:** Envelope shall be sealed and marked with the bidder’s name, Bid number, time, date and place of Bid Opening.
11. **BID GUARANTEE REQUIREMENT:** Bidder is required to submit a Bid Guarantee Bond or standby irrevocable Letter of Credit or Certified Check or Cashier’s Check in the same bid envelope to be held by the Government pending award. The Letter of Credit, Cash, Certified Check or Cashier’s Check, Bid Guarantee Bond must be issued by any local surety or banking institution licensed to do business on Guam and made payable to the Guam Power Authority in the amount of fifteen percent (15%) of his highest total bid offer. The Bid Bond must be submitted on Government Standard Form BB-1 (copy enclosed). Personal Checks will not be accepted as Bid Guarantee. If a successful Bidder (contractor) withdraws from the bid or fails to enter into contract within the prescribed time, such Bid guarantee will be forfeited to the Government of Guam. Bids will be disqualified if not accompanied by Bid Bond, Letter of Credit, Certified Check or Cashier’s check. Bidder must include in his/her bid, valid copies of a Power of Attorney from the Surety and a Certificate of Authority from the Government of Guam to show proof that the surety company named on the bond instrument is authorized by the Government of Guam and qualified to do business on Guam. For detailed information on bonding matters, contact the Department of Revenue and Taxation. Failure to submit a valid Power of Attorney and Certificate of Authority on the surety is cause for rejection of bid. (GPR Section 3-202.03.3) **Pursuant to Public Law 27-127, all competitive sealed bidding for the procurement of supplies or services exceeding \$25,000.00 a 15% Bid Security of the total bid price must accompany the bid package.**
12. **PERFORMANCE BOND REQUIREMENT:** The Bidder may be required to furnish a Performance Bond on Government Standard Form BB-1 or standby irrevocable Letter of Credit or Certified Check or Cashier’s Check payable to the Guam Power Authority issued by any of the local Banks or Bonding Institution in the amount of **Fifteen Percent (15%)** for that full or partial fiscal year within the term of the contract. In the event that any of the provisions of this contract are violated by the contractor, the Chief Procurement Officer shall serve written notice upon both the contractor and the Surety of its intention to terminate the contract. Unless satisfactory arrangement or correction is made with ten (10) days of such notice the contract shall cease and terminate upon the expiration of the ten (10) days. In the event of any such termination, the Chief Procurement Officer shall immediately serve notice thereof upon the Surety. The Surety shall have the right to take over and perform the contract, provided, however, that if the Surety does not commence performance thereof within 10 days from the date of the mailing of notice of termination, the Government may take over and prosecute the same to complete the contract or force account for the account and at the expense of the contractor, and the contractor and his Surety shall be liable to the Government for any excess cost occasioned the Government thereby (GPR Section 3-202.03.4).

- [X] 13. **PERFORMANCE GUARANTEE:** Bidders who are awarded a contract under this solicitation, guarantee that goods will be delivered or required services performed within the time specified. Failure to perform the contract in a satisfactory manner may be cause for suspension or debarment from doing business with the Government and to enforce Section 23 of these General Terms and Conditions. In addition, the Government will hold the Vendor liable and will enforce the requirements as set forth in Section 41 of these General Terms and Conditions.
- [X] 14. **SURETY BONDS:** Bid and Performance Bonds coverage must be signed or countersigned in Guam by a foreign or alien surety's resident general agent. The surety must be an Insurance Company, authorized by the government of Guam and qualified to do business in Guam. Bids will be disqualified if the Surety Company does not have a valid Certificate of Authority from the Government of Guam to conduct business in Guam.
- [X] 15. **COMPETENCY OF BIDDERS:** Bids will be considered only from such bidders who, in the opinion of the Government, can show evidence of their ability, experience, equipment, and facilities to render satisfactory service.
- [X] 16. **DETERMINATION OF RESPONSIBILITY OF BIDDERS:** The Chief Procurement Officer reserves the right for securing from bidders information to determine whether or not they are responsible and to inspect plant site, place of business; and supplies and services as necessary to determine their responsibility in accordance with Section 15 of these General Terms and Conditions (GPR Section 3-401).
- [X] 17. **STANDARD FOR DETERMINATION OF LOWEST RESPONSIBLE BIDDER:** In determining the lowest responsible offer, the Chief Procurement Officer shall be guided by the following:
- a) Price of items offered.
  - b) The ability, capacity, and skill of the Bidder to perform.
  - c) Whether the Bidder can perform promptly or within the specified time.
  - d) The quality of performance of the Bidder with regards to awards previously made to him.
  - e) The previous and existing compliance by the Bidder with laws and regulations relative to procurement.
  - f) The sufficiency of the financial resources and ability of the Bidder to perform.
  - g) The ability of the bidder to provide future maintenance and services for the subject of the award.
  - h) **The compliance with all of the conditions to the Solicitation.**
- [X] 18. **TIE BIDS:** If the bids are for the same unit price or total amount in the whole or in part, the Chief Procurement Officer will determine award based on Section 3.202.15.2, or to reject all such bids (GPR Section 3-202.15.2).
- [ ] 19. **BRAND NAMES:** Any reference in the Solicitation to manufacturer's Brand Names and number is due to lack of a satisfactory specification of commodity description. Such preference is intended to be descriptive, but not restrictive and for the sole purpose of indicating prospective bidders a description of the article or services that will be satisfactory. Bids on comparable items will be considered provided the bidder clearly states in his bid the exact articles he is offering and how it differs from the original specification.
- [X] 20. **DESCRIPTIVE LITERATURE:** Descriptive literature(s) as specified in this solicitation must be furnished as a part of the bid and must be received at the date and time set for opening Bids. The literature furnished must clearly identify the item(s) in the Bid. The descriptive literature is required to establish, for the purpose of evaluation and award, details of the product(s) the bidder proposes to furnish including design, materials, components, performance characteristics, methods of manufacture, construction, assembly or other characteristics which are considered appropriate. Rejection of the Bid will be required if the descriptive literature(s) do not show that the product(s) offered conform(s) to the specifications and other requirements of this solicitation. Failure to furnish the descriptive literature(s) by the time specified in the Solicitation will require rejection of the bid.
- [ ] 21. **SAMPLES:** Sample(s) of item(s) as specified in this solicitation must be furnished as a part of the bid and must be received at the date and time set for opening Bids. The sample(s) should represent exactly what the bidder proposes to furnish and will be used to determine if the item(s) offered complies with the specifications. Rejection of the Bid will be required if the sample(s) do not show that the product(s) offered conform(s) to the specifications and other requirements of this solicitation. Failure to furnish the sample(s) by the time specified in the Solicitation will require rejection of the Bid.
- [X] 22. **LABORATORY TEST:** Successful bidder is required to accompany delivery of his goods with a Laboratory Test Report indicating that the product he is furnishing the Government meets with the specifications. This report is on the bidder's account and must be from a certified Testing Association.
- [X] 23. **AWARD, CANCELLATION, & REJECTION:** Award shall be made to the lowest responsible and responsive bidder, whose bid is determined to be the most advantageous to the Government, taking into consideration the evaluation factors set forth in this solicitation. No other factors or criteria shall be used in the evaluation. The right is reserved as the interest of the Government may require to waive any minor irregularity in bid received. The Chief Procurement Officer shall have the authority to award, cancel, or reject bids, in whole or in part for any one or more items if he determines it is in the public interest. Award issued to the lowest responsible bidder within the specified time for acceptance as indicated in the solicitation, results in a bidding contract without further action by either party. In case of an error in the extension of prices, unit price will govern. It is the policy of the Government to award contracts to qualified local bidders. The government reserves the right to increase or decrease the quantity of the items for award and make additional awards for the same type items and the vendor agrees to such modifications and additional awards based on the bid prices for a period of thirty (30) days after original award. No award shall be made under this solicitation which shall require advance payment or irrevocable letter of credit from the government (GPR Section 3-202.14.1).
- [X] 24. **MARKING:** Each outside container shall be marked with the Purchase Order number, item number, brief item description and quantity. Letter marking shall not be less than 3/4" in height.
- [X] 25. **SCHEDULE FOR DELIVERY:** Successful bidder shall notify the Guam Power Authority Dededo Warehouse at (671) 653-2073, Information Technology Division at (671) 648-3060, and/or Guam Power Authority Cabras Warehouse at (671) 475-3319, at least twenty-four (24) hours before delivery of any item under this solicitation.
- [ ] 26. **BILL OF SALE:** Successful supplier shall render Bills of Sale for each item delivered under this contract. Failure to comply with this requirement will result in rejection of delivery. The Bill of Sale must accompany the items delivered but will not be considered as an invoice for payment. Supplier shall bill the Government in accordance with billing instructions as indicated on the Purchase Order.

- [X] 27. **MANUFACTURER'S CERTIFICATE:** Successful bidder is required, upon delivery of any item under this contract, to furnish a certificate from the manufacturer indicating that the goods meet the specifications. Failure to comply with this request will result in rejection of delivery payment. Supplier shall bill the Government in accordance with billing instructions as indicated on the Purchase Order.
- [X] 28. **INSPECTION:** All supplies, materials, equipment, or services delivered under this contract shall be subject to the inspection and/or test conducted by the Government at destination. If in any case the supplies, materials, equipment, or services are found to be defective in material, workmanship, performance, or otherwise do not conform with the specifications, the Government shall have the right to reject the items or require that they be corrected. The number of days required for correction will be determined by the Government.
- [ ] 29. **MOTOR VEHICLE SAFETY REQUIREMENTS:** The Government will only consider Bids on motor vehicles which comply with the requirements of the National Traffic and Motor Vehicle safety Act of 1966 (Public Law 89-563) and Clean Air Act as amended (Public Law 88-206), that are applicable to Guam. Bidders shall state if the equipment offered complies with these aforementioned Federal Laws.
- [ ] 30. **SAFETY INSPECTION:** All motor vehicles delivered under this contract must pass the Government of Guam Vehicle Inspection before delivery at destination.
- [X] 31. **GUARANTEE:**
- a) **Guarantee of Vehicle Type of Equipment:**  
The successful bidder shall guarantee vehicular type of equipment offered against defective parts, workmanship, and performance, for a period of not less than one (1) year after date of receipt of equipment. Bidder shall also provide service to the equipment for at least one (1) year. Service to be provided shall include, but will not be limited to tune ups (change of spark plugs, contact points and condensers) and lubrication (change of engine and transmission oil). All parts and labor shall be at the expense of the bidder. All parts found defective and not caused by misuse, negligence or accident within the guarantee period shall be repaired, replaced, or adjusted within six (6) working days after notice from the Government and without cost to the Government. Vehicular type of equipment as used in this context shall include equipment used for transportation as differentiated from tractors, backhoes, etc.
- b) **Guarantee of Other Type of Equipment:**  
The successful bidder shall guarantee all other types of equipment offered, except those mentioned in 31a, above, against defective parts, workmanship, and performance for a period of not less than three (3) months after date of receipt of equipment. Bidder shall also provide service to the equipment for at least three (3) months. All parts found defective within that period shall be repaired or replaced by the Contractor without cost to the Government. Repairs, adjustments or replacements of defective parts shall be completed by the contractor within six (6) working days after notice from the Government.
- c) **Compliance with this Section is a condition of this Bid.**
- [X] 32. **REPRESENTATION REGARDING ETHICS IN PUBLIC PROCUREMENT:** The bidder or contractor represents that it has not knowingly influenced and promises that it will not knowingly influence a Government employee to breach any of the ethical standards and represents that it has not violated, is not violating, and promises that it will not violate the prohibition against gratuities and kickbacks set forth on Chapter 11 (Ethics in Public Contracting) of the Guam Procurement Act and in Chapter 11 of the Guam Procurement Regulations.
- [X] 33. **REPRESENTATION REGARDING CONTINGENT FEES:** The contractor represents that it has not retained a person to solicit or secure a Government contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, except for retention of bona fide employees or bona fide established commercial selling agencies for the purpose of securing business (GPR Section 11-207).
- [X] 34. **EQUAL EMPLOYMENT OPPORTUNITY:** Contractors shall not discriminate against any employee or applicant of employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that employees are treated equally during employment without regards to their race, color, religion, sex, or national origin.
- [X] 35. **COMPLIANCE WITH LAWS:** Bidders awarded a contract under this Solicitation shall comply with the applicable standard, provisions, and stipulations of all pertinent Federal and/or local laws, rules, and regulations relative to the performance of this contract and the furnishing of goods.
- [ ] 36. **CHANGE ORDER:** Any order issued relative to awards made under this solicitation will be subject to and in accordance with the provisions of Section 6-101-03.1 of the Guam Procurement Regulations.
- [ ] 37. **STOP WORK ORDER:** Any stop work order issued relative to awards made under this solicitation will be subject to and in accordance with the provisions of Section 6-101-04.1 of the Guam Procurement Regulations.
- [X] 38. **TERMINATION FOR CONVENIENCE:** Any termination order for the convenience of the Government issued relative to awards made under this solicitation will be subject to and in accordance with the provisions of Section 6-101.10 of the Government Procurement Regulations.
- [X] 39. **TIME FOR COMPLETION:** It is hereby understood and mutually agreed by and between the contractor and the Government that the time for delivery to final destination or the timely performance of certain services is an essential condition of this contract. If the contractor refuses or fails to perform any of the provisions of this contract within the time specified in the Purchase Order (from the date Purchase Order is acknowledged by vendor), then the contractor is in default. Defaults will be treated subject to and in accordance with the provisions of Section 6-101-08 of the Guam Procurement Regulations.
- [X] 40. **JUSTIFICATION OF DELAY:** Bidders who are awarded contracts under this Solicitation, guarantee that the goods will be delivered to their destination or required services rendered within the time specified. If the bidder is not able to meet the specified delivery date, he is required to notify the Chief Procurement Officer of such delay. Notification shall be in writing and shall be received by the Chief Procurement Officer at least twenty-four (24) hours before the specified delivery date. Notification of

delay shall include an explanation of the causes and reasons for the delay including statement(s) from supplier or shipping company causing the delay. The Government reserves the right to reject delay justification if, in the opinion of the Chief Procurement Officer, such justification is not adequate.

[X] 41. **LIQUIDATED DAMAGES:** When the contractor is given notice of delay or nonperformance as specified in Paragraph 1 (Default) of the Termination for Default Clause of this contract and fails to cure in the time specified, the contractor shall be liable for damages for delay in the amount of one-fourth of one percent (1%) of outstanding order per calendar day from date set for cure until either the territory reasonable obtains similar supplies or services if the contractor is terminated for default, or until the contractor provides the supplies or services if the contractor is not terminated for default. To the extent that the contractor's delay or nonperformance is excused under Paragraph 40 (Excuse for Nonperformance or Delayed Performance) of the Termination for Default Clause of this contract, liquidated damages shall not be due the territory. The contractor remains liable for damages caused other than by delay (GPR Section 6-101-09.1).

[X] 42. **PHYSICAL LIABILITY:** If it becomes necessary for the Vendor, either as principal, agent or employee, to enter upon the premises or property of the Government of Guam in order to construct, erect, inspect, make delivery or remove property hereunder, the Vendor hereby covenants and agrees to take, use, provide and make all proper, necessary and sufficient precautions, safeguards and protections against the occurrence of any accidents, injuries or damages to any person or property during the progress of the work herein covered, and to be responsible for, and to indemnify and save harmless the Government of Guam from the payment of all sums of money by reason of all or any such accidents, injuries or damages that may occur upon or about such work, and fines, penalties and loss incurred for or by reasons of the violations of any territorial ordinance, regulations, or the laws of Guam or the United States, while the work is in progress. Contractor will carry insurance to indemnify the Government of Guam against any claim for loss, damage or injury to property or persons arising out of the performance of the Contractor or his employees and agents of the services covered by the contract and the use, misuse or failure of any equipment used by the contractor or his employees or agents, and shall provide certificates of such insurance to the Government of Guam when required.

[X] 43. **CONTACT FOR CONTRACT ADMINISTRATION:** If your firm receives a contract as a result of this Solicitation, please designate a person whom we may contact for prompt administration.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Address: \_\_\_\_\_ Telephone: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

## GOVERNMENT OF GUAM

### SEALED BID SOLICITATION INSTRUCTIONS

1. **BID FORMS:** Each bidder shall be provided with two (2) sets of Solicitation forms. Additional copies may be provided upon request. Bidders requesting additional copies of said forms will be charged per page in accordance with Section 6114 of the Government Code of Guam. All payments for this purpose shall be by cash, certified check or money order and shall be made payable to the Guam Power Authority.
  
2. **PREPARATIONS OF BIDS:**
  - a) Bidders are required to examine the drawings, specifications, schedule, and all instructions. Failure to do so will be at bidder's risk.
  - b) Each bidder shall furnish the information required by the Solicitation. The bidder shall sign the solicitation and print or type his name on the Schedule. Erasures or other changes must be initialed by the person signing the bid. Bids signed by an agent are to be accompanied by evidence of this authority unless such evidence has been previously furnished to the issuing office.
  - c) Unit price for each unit offered shall be shown and such price shall include packing unless otherwise specified. A total shall be entered in the amount column of the Schedule for each item offered. In case of discrepancies between a unit price and extended price, the unit price will be presumed to be correct.
  - d) Bids for supplies or services other than those specified will not be considered.  
Time, if stated as a number of days, means calendar days and will include Saturdays, Sundays, and holidays beginning the day after the issuance of a Notice to Proceed. Time stated ending on a Saturday, Sunday or Government of Guam legal holiday will end at the close of the next business day.
  
3. **EXPLANATION TO BIDDERS:** Any explanation desired by a bidder regarding the meaning or interpretation of the Solicitation, drawings, specifications, etc., must be submitted in writing and with sufficient time allowed for a written reply to reach all bidders before the submission of their bids. Oral explanations or instructions given before the award of the contract will not be binding. Any information given to a prospective bidder concerning a Solicitation will be furnished to all prospective bidders in writing as an amendment to the Solicitation if such information would be prejudicial to uninformed bidders.
  
4. **ACKNOWLEDGEMENT OF AMENDMENTS TO SOLICITATIONS:** Receipt of an amendment to a Solicitation by a bidder must be acknowledged by signing an acknowledgement of receipt of the amendment.  
Such acknowledgement must be received prior to the hour and date specified for receipt of bids.
  
5. **SUBMISSION OF BIDS:**
  - a) Bids and modifications thereof shall be enclosed in sealed envelopes and addressed to the office specified in the Solicitation. The bidder shall show the hour and date specified in the Solicitation for receipt, the Solicitation number, and the name and address of the bidder on the face of the envelope.
  - b) Telegraphic bids will not be considered unless authorized by the Solicitation. However, bids may be modified or withdrawn by written or telegraphic notice, provided such notice is received prior to the hour and date specified for receipt (see paragraph 6 of these instructions).
  - c) Samples of items, when required, must be submitted within the time specified, unless otherwise specified by the Government, at no expense to the Government. If not destroyed by testing, samples will be returned at bidder's request and expense, unless otherwise specified by the Solicitation.
  - d) Samples or descriptive literature should not be submitted unless it is required on this solicitation. Regardless of any attempt by a bidder to condition the bid, unsolicited samples or descriptive literature will not be examined or tested at the bidder's risk, and will not be deemed to vary any of the provisions of this Solicitation.
  
6. **FAILURE TO SUBMIT BID:** If no bid is to be submitted, do not return the solicitation unless otherwise specified. A letter or postcard shall be sent to the issuing office advising whether future Solicitations for the type of supplies or services covered by this Solicitation are desired.
  
7. **LATE BID, LATE WITHDRAWALS, AND LATE MODIFICATIONS:**
  - a) Definition: Any bid received after the time and date set for receipt of bids is late. Any withdrawal or modification of a bid received after the time and date set for opening of bids at the place designated for opening is late (Guam Procurement Regulations Section 3-202)
  - b) Treatment: No late bid, late modification, or late withdrawal will be considered unless received before contract award, and the bid, modification, or withdrawal would have been timely but for the action or inaction of territorial personnel directly serving the procurement activity.
  
8. **DISCOUNTS:**
  - a) Notwithstanding the fact that prompt payment discounts may be offered, such offer will not be considered in evaluating bids for award unless otherwise specified in the Solicitation. However, offered discounts will be taken if payment is made within the discount period, even though not considered in the evaluation of bids.

b) In connection with any discount offered, time will be computed from date of delivery and acceptance of the supplies to the destination as indicated in the purchase order or contract. Payment is deemed to be made for the purpose of earning the discount on the date of mailing of the Government check.

9. **GOVERNMENT FURNISHED PROPERTY:** No material, labor or facilities will be furnished by the Government unless otherwise provided for in the Solicitation.
10. **SELLERS' INVOICES:** Invoices shall be prepared and submitted in quadruplicate (one copy shall be marked "original") unless otherwise specified. Invoices shall be "certified true and correct" and shall contain the following information: Contract and order number (if any), item numbers, description of supplies or services, sizes, quantities, unit prices, and extended total. Bill of lading number and weight of shipment will be shown for shipments made on Government bills of lading.
11. **RECEIPT, OPENING AND RECORDING OF BIDS:** Bids and modifications shall be publicly opened in the presence of one or more witnesses, at the time, date, and place designated in the Invitation for Bids. The name of each bidder, the bid price, and such other information as is deemed appropriate by the Procurement Officer, shall be read aloud and recorded, or otherwise made available. The names and addresses of required witnesses shall be recorded at the opening. The opened bids shall be available for public inspection except to the extent the bidder designates trade secrets or other proprietary data to be confidential as set forth in accordance with Section 12 below. Material so designated shall accompany the bid and shall be readily separable from the bid in order to facilitate public inspection of the non-confidential portion of the bid. Prices, makes and models or catalogue numbers of the items offered, deliveries, and terms of payment shall be publicly available at the time of bid opening regardless of any designation to the contrary (Guam Procurement Regulations Section 3-202.12.2).
12. **CONFIDENTIAL DATA:** The Procurement Officer shall examine the bids to determine the validity of any requests for nondisclosure of trade secrets and other proprietary data identified in writing. If the parties do not agree as to the disclosure of data, the Procurement Officer shall inform the bidders in writing what portions of the bid will be disclosed and that, unless the bidders protest under Chapter 9 of the Guam Procurement Act (P.L. 16-124), the bids will be so disclosed. The bids shall be opened to public inspection subject to any continuing prohibition on the disclosure of confidential data (Guam Procurement Regulations Section 3-202.12.3).
13. **MULTI-STEP SEALED BIDDING:**
- a. It is defined as two-phase process consisting of a technical first-phase composed of one or more steps in which bidders submit unpriced technical offers to be evaluated by the territory, and a second-phase in which those bidders whose technical offers are determined to be acceptable during the first-step have their priced bids considered. It is designed to obtain the benefits of competitive sealed bidding by award of a contract to the lowest responsive, responsible bidder, and at the same time obtained the benefits of the competitive sealed proposals procedure through the solicitation of technical offers and the conduct of discussions to evaluate and determine the acceptability of technical offers.
  - b. In addition to the requirements set forth in the General Terms and Conditions and the Special provisions, the following applies:
    - 1). only unpriced technical offers are requested in the first phase;
    - 2). priced bids will be considered only in the second phase and only from bidders whose unpriced technical offers are found acceptable in the first phase;
    - 3). the criteria to be used in the evaluation at those specified in the Special Provisions and the General Terms and Conditions;
    - 4). the territory, to the extent the Procurement Officer finds necessary, may conduct oral or written discussion of the unpriced technical offers;
    - 5). the bidders, may designate those portions of the unpriced technical offers which contain trade secrets or other proprietary data which are to remain confidential; and,
    - 6). the service being procured shall be furnished generally in accordance with bidder's technical offer as found to be finally acceptable and shall meet the requirements of the Invitation for Bids.
  - c. **RECEIPT AND HANDLING OF UNPRICED TECHNICAL OFFERS.**  
Unpriced technical offers shall not be opened publicly, but shall be opened in front of two or more procurement officials. Such offers shall not be disclosed to unauthorized persons. Bidders may request nondisclosure of trade secrets and other proprietary data identified in writing.
  - d. **EVALUATION OF UNPRICED TECHNICAL OFFERS.**  
The unpriced technical offers submitted by bidders shall be evaluated solely in accordance with the criteria set forth in the Invitation for Bids. The unpriced technical offers shall be categorized as:
    - 1). acceptable;
    - 2). potentially acceptable, that is, reasonably susceptible of being made acceptable; or
    - 3). unacceptable. The Procurement Officer shall record in writing the basis for finding an offer unacceptable and make it part of the procurement file.

The Procurement Officer may initiate Phase Two of the procedure if, in the Procurement Officer's opinion, there are sufficient acceptable unpriced technical offers to assure effective price competition in the second phase without technical discussions. If the Procurement Officer finds such is not the case, the Procurement Officer shall issue an amendment to the Invitation for Bids or engage in technical discussions as set forth in Subsection 3-202.20.5 of this Section.
  - e. Upon the completion of Phase One, the Procurement Officer shall invite each acceptable bidder to submit a price bid. Upon submission of prices, the Procurement Officer shall prepare the final evaluation and reconsideration for the Chief Procurement Officer's approval.