

**VIRGIN ISLANDS
WATER AND POWER AUTHORITY**



**GEOGRAPHIC INFORMATION SYSTEM
Request for Proposal
PR-07-22**

**NOTICE TO BIDDERS
November 15, 2021**

ADDENDUM NO. 4

Vendor Question/ Clarifications

US Virgin Islands Responses for GIS RFP questions

Please see responses in green.

1. Is there a breakdown of each Island's Facilities counts (poles, meters, underground devices, Manholes) along with each island's feeder and sub counts? **Please see page 8.**
2. Can additional option cost be added to the Pricing Spreadsheet? **Yes, must be clear in description. Preferably in daily rates (per day).**
3. Is it expected that the contractor will Purchase all tag materials? **Yes, unless otherwise stated.**
4. Is USVI only looking for the nameplate Photograph of equipment? Or IS USVI expecting information to be transcribed from the photo of the nameplate? **We expect information to be transcribed.**
5. In section 5.3 of RFP there are several questions that are asked. Can those be addressed in the actual proposal or is USVI expecting those answers in that form? **Please maintain this format. Answer basic question on same page (ie years of experience), and for extensive responses please put reference page number from your proposal (i.e. please see page XX).**
6. Are each manhole to be opened and Inventoried? Is that expected of all 700? Can USVI provide a breakdown of manholes for each island? **Yes. All manholes are expected to be opened and inventoried. Please see page 8 for counts.**
7. Is the expectation that all pad mount devices will be opened? **Yes. All padmount equipment will be opened.**
8. Is the client requesting that contractor provide detailed modeling of the SwitchGear Cabinets in the Milsoft model? **Device will be opened and inventoried. Contractor will work with WAPA to ensure proper modeling is done (we have most items in current model, field inventory will verify/audit what is in model.**
9. 2.4 of the RFP Liquidated damages states there is a \$900/day penalty if not complete by schedule. Does USVI have a set completion schedule or is that to be determined by the contractor?
Recommended schedule from Vendor must be approved before project begins. Timeframed listed below is preferred.
 - a. *STJ- pilot (2 months)*
 - b. *STT- 4 months (proceed after pilot accepted)*
 - c. *STX- 4 months (proceed after pilot accepted)*

d. Other processing, finalizations- 2 months

10. Payment terms of the contract state there will only be 6 payments made as we as 10% retainage. Is this negotiable? **Recommended payments must be approved by WAPA before project begins. Must include Milestones. See page 10**
11. With the required tagging convention outlined in Appendix C, what is the quantity of each alpha and numeric tag needing to be supplied? Example: quantity of 1's, quantity of A's... **See page 8**
Would it be possible for USVI to accept a Unique pre-assembled 6-7 digit tag applied to the pole that will be linked to all equipment instead of the naming convention method in Appendix C? **POLE TAGS and PHASING ARE TOP PRIORITIES. Naming Convention is flexible. WAPA will work with vendor to determine best way to label other specified devices. See page 9 sample preferred tags.**
12. Will old pole tags need to be removed? **NO**
13. Section 4.8 III-k requests underground communications. Are we expected to inventory underground communications that are separate from those related to manholes? **There are approximately 5 microtrench that would need documenting. (less than 5,000ft)**

APPENDICES

APPENDIX A 11/15/2021

ATTRIBUTES (changed/added items in **RED**)

1. Poles
 - a. Unique pole tag (**T**-000001 for STT, **C**-000001 for STX, **J**-000001 for STJ, **H**- Hassel Island, **W**-Water Island)
 - b. Type : wooden, composite, streetlight (concrete, steel)
 - c. Serial number (composite Poles)
 - d. Brand
 - e. Height
 - f. Class
 - g. Birth year
 - h. Assembly (see construction standard)
 - i. number of electrical connections (secondary wire etc)
 - j. grounded?
 - k. Guying
 - l. Joint use (fiber, cable, other)
 - m. Job (WF/Project)-*to be left blank for WAPA*
 - n. Install date
 - o. Pic (overall, construction, other?)
 - p. STATUS (Good, Leaning, Rotten, Other)**
2. Meters (meterbases)
 - a. Unique Identifier (Location ID)
 - b. Meter number
 - c. Network ID**
 - d. Phase
 - e. Meter type (form 2s, 16s, etc.)
 - f. Primary/secondary
 - g. Meter seal label info**
 - h. Meter seal color**
 - i. Job (WF/Project)-*to be left blank for WAPA*
 - j. Install date (link from CIS)
 - k. Net Meter Equipment
 - l. Pic (meter base/meter socket)
 - m. Primary meter HV, LV, Config, etc.
 - n. STATUS (good, faded, no reading, other)**
3. Transformers
 - a. Unique identifier (pole tag)
 - b. KVA
 - c. Phase Type (single, three)

- d. Identify phase (A, ABC, etc)
 - e. Connection type (Wye-Delta, etc)
 - f. Identify source
 - g. Job (WF/Project)-*to be left blank for WAPA*
 - h. Install date
 - i. Pic (overall, nameplate)
 - j. Transcribe data (i.e. Serial Number, HV,LV, Impedance, Configuration, Brand etc)**
 - k. STATUS (good, fading, rusted, other)**
4. Streetlights
- a. Unique identifier (pole tag)
 - b. Type (LED, halogen, etc)
 - c. Size (Watts, etc)
 - d. Accessory (photocell, solar panel, etc)
 - e. Classification (private, public, highway, etc)
 - f. Job (WF/Project)-*to be left blank for WAPA*
 - g. Install date
 - h. Pic
 - i. STATUS (ON, OFF, blinking, day burner, dim)**
5. Devices (Fuses, Switches, Reclosers, Capacitors, Fault Indicators, etc, see appendix)
- a. Unique Identifier (see pole tag/naming convention standards)
 - b. Network ID**
 - c. Identify phase
 - d. Electrical connections
 - e. Nameplates when applicable
 - f. Job (WF/Project) *to be left blank for WAPA*
 - g. Install date
 - h. Pic (overall, nameplate)
 - i. Serial number**
 - j. STATUS (good, rusted, LOTO?, unlock, other)**
6. Electrical Lines
- a. Unique Identifier (Windmil generated: STT, STJ,STX prefix for each island)
 - b. Conductor size (see appendix)
 - c. Phase (A,B,C,ABC, etc)
 - d. Voltage (69kV, 34kV, 25kV, 15kV, 7.9kv, etc)
 - e. Splices
 - f. Connections
 - g. Job (WF/Project) *to be left blank for WAPA*
 - h. Install date
 - i. Pic/video?
 - j. STATUS (good, trees, splices, hazardous connection, etc)**

7. AMI EQUIPMENT
 - a. Unique Identifier
 - b. Network ID
 - c. Sharkfins
 - d. Repeaters
 - e. Collector Type
 - f. Towers
 - g. Job (WF/Project) *to be left blank for WAPA*
 - h. Install date
 - i. Pic
 - j. Serial number
 - k. Nameplate data (when applicable)
 - l. Status (TBD)**
8. Pole Attachments
 - a. Line attachments (connectors, insulators, etc)
 - b. Fiber
 - c. Phone
 - d. Cable
 - e. Cameras
 - f. Other
 - g. (WF/Project)-*to be left blank for WAPA*
 - h. Install date
 - i. Pic (overall, nameplate)
 - j. Status (hazardous connection, other, TBD)**
9. Manholes
 - a. Unique Identifier
 - b. Conductor size
 - c. Connections (splices/elbows)
 - d. Feeder routing
 - e. Phasing
 - f. Fibercount
 - g. Fibertype
 - h. Other
 - i. Pic
 - j. Status (hazardous connection, other, TBD)**
10. **Primary Meter**
 - a. CT, PT Info**
 - b. Config**
 - c. Pic**
 - d. Transcribed nameplate data**
 - e. Status (TBD)**

APPENDIX B TAGGING

1. Poles
 - a. Wooden
 - b. Composite
 - c. Steel
2. Padmount Equipment
 - a. Transformers
 - b. Switches
 - c. Junction boxes/Other
3. AMI Equipment
 - a. Sharkfins (on meterbases)
 - b. Collectors
 - c. Crossbands (on poles)
 - d. VCs (substations/poles)
 - e. Repeaters (on pole)
 - f. Towers (10)
4. Electrical Line Phases
 - a. Label phases of all main line 3ph risers
 - b. Label phases of all lateral/take-off poles or within 2 poles span of such
 - c. If there are more than 10 pole spans between previous stated sections- place
 - d. labels at a midway point or at every 10th pole span
5. General WAPA Equipment
 - a. Switches
 - b. Capacitors
 - c. Reclosers
 - d. Devices
 - e. Meter status
 - f. Net Billing/Net Metering
 - g. kW (AC)
 - h. other

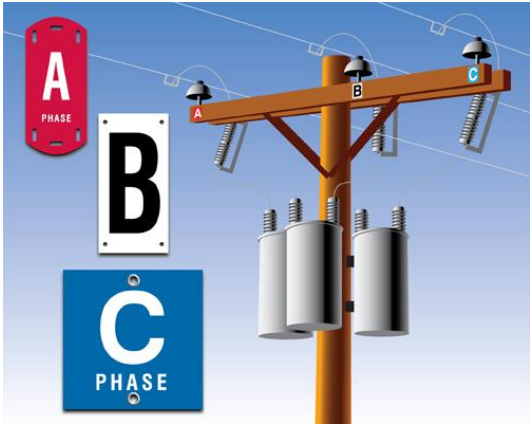
Approximate Counts

	<i>STX</i>	<i>STT</i>	<i>STJ</i>	<i>Aprox Total</i>
Poles	24375	13660	3500	41535
OH Xfmrs	4058	2864	581	7503
UG Xfmrs	335	671	245	1251
Meters	31481	31961	4507	67949
Electrical Devices (Switches/Reclosers)	200	300	50	550
Manholes/Pullbox/ Junctions	400	300	200	900
AMI Devices				583
<i>3ph Poles</i>	<i>4167</i>	<i>3210</i>	<i>722</i>	<i>8099</i>
<i>Approx poles to tag/ count for each phase</i>	<i>416</i>	<i>321</i>	<i>72</i>	<i>809</i>
<i>Total phase tags</i>	<i>1248</i>	<i>963</i>	<i>216</i>	<i>2427</i>
<i>Lights</i>	<i>9688</i>	<i>6402</i>	<i>556</i>	<i>16646</i>
Feeders	15	17	2	34
Substations	3	5	1	9
Net Billing/Meters	1000	1200	500	2700

TAG SAMPLE



POLE TAGS TYPE



PHASE LABELING TYPE



DEVICE LABELING

(FLEXIBILITY)



FIBER IDENTIFICATION

MileStones.

1. Mobilization/Demobilization, 5%
2. General Points Processing (Pole Count/Tagging + Other Baseline TBD)
3. Meter Data Collection Processing
4. Padmount Equipment/Manhole Process
5. Electrical Line Process (Model Build Completely in different Software)
6. Final Model Acceptance/Trainings/Summary Reports 10%

Please also include line item price to perform the following.

1. *Streetlight status check (night work- checking status of streetlights)*
2. *Perform lock initiative* (place locks on unsecure equipment after data collection). This would include padmount equipment and control boxes. WAPA would provide locks.