

**ATTACHMENT B**

**BID FORM**

**ASPA21.010.WTR**

TO: American Samoa Power Authority, Attn: Procurement Manager.

ADDRESS: PO Box PPB, Pago Pago, American Samoa 96799.

TITLE: "HDPE Pipes Upgrade & Replacement Project – Tualauta Phase I.

RFP #: \_\_\_\_\_

BIDDER: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DATE: \_\_\_\_\_, 2020.

**BASE BID**

<u>ITEM DESCRIPTION</u>	<u>EST.QTY</u>	<u>PRICE PER UNIT</u>	<u>TOTAL PRICE</u>
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**I. Vienna Site:**

1. Mobilization/ Demobilization	1 - LS	\$ _____	\$ _____
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2. Install 6" PVC Pipe.	2,400 LF	\$ _____	\$ _____
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Above price shall include all supervision, certified personnel in PVC installation, labor, equipment, backfill and compaction tests for the complete waterline and construction as specified and shown in the drawings. This cost shall also include the restoration of roads and all other structures affected or damaged during the construction.

3. Install Fire Hydrants.	5 - EA	\$ _____	\$ _____
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Above price shall include all supervision, labor, equipment, backfill, compaction and testing, thrust blocks and all concrete works required for the complete installation, including connection to the new 6" PVC mainline as specified and shown in the drawings.

4. Install PRV/PSV.	1 - EA	\$ _____	\$ _____
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Above price shall include all supervision, labor, equipment, backfill, compaction and testing, thrust blocks and all concrete works required for the complete installation of the PSV/PRV. This cost shall include the Vault construction and pipe connection to the new 6" PVC mainline as specified and

shown in the drawings.

5. **Inline Meters** 1 - EA \$ \_\_\_\_\_ \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, backfill and materials for the complete installation of the inline meter as specified and shown in the drawings. This cost shall include the Vault construction and pipe connection to the new 6" PVC mainline as specified and shown in the drawings.
6. **Install Sampling Station** 1 - EA \$ \_\_\_\_\_ \$ \_\_\_\_\_  
Above prices shall include all supervision, labor, equipment, backfill, compaction and testing for the complete installation of the sampling station as specified and shown in the drawings. The location shall be confirmed by the Project Engineer.
7. **Install Service Stub-Outs** 9 - EA \$ \_\_\_\_\_ \$ \_\_\_\_\_  
Above prices shall include all supervision, labor, equipment, backfill, compaction and testing and thrust blocking necessary for the complete installation of the new stub-outs and transfer and relocation of existing water meters as specified in the contract and shown in the drawings.
8. **Install Tie-Ins** 1 - EA \$ \_\_\_\_\_ \$ \_\_\_\_\_  
Above prices shall include all supervision, labor, equipment, backfill, compaction and testing and concreting for the complete installation as specified and shown in the drawings.
9. **Pipe Flushing/Hydrostatic** 1 - LS \$ \_\_\_\_\_ \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, materials and services required for flushing and hydro-testing of the new 6" pipeline, fittings, fire hydrants, all valves and stub-outs as defined and shown in the Contract Documents. The required water will be charged to the contractor. Proper disposal of the used water is the responsibility of the contractor and must be approved by ASPA.
10. **Pipe Disinfection** 1 - LS \$ \_\_\_\_\_ \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, materials and services required for disinfecting the new 6" pipeline as defined and shown in the Contract Documents. The required water will be charged to the contractor. Proper disposal of the used water is the responsibility of the contractor and must be approved by ASPA.
11. **AS-BUILT/SURVEY** 1 - LS \$ \_\_\_\_\_ \$ \_\_\_\_\_  
Above price shall include all necessary costs to produce an AS-BUILT that conforms to ASPA's standards as shown in the Technical Specs and Contract Documents.

**Total Bid:** \_\_\_\_\_ \$ \_\_\_\_\_  
(Amount in Words)

## **II. Fatu o Aiga Site:**

1. **Mobilization/  
Demobilization**                      1- LS                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_
2. **Install 6" PVC Pipe.**                      3,200 LF                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all supervision, **certified personnel in PVC installation**, labor, equipment, backfill and compaction tests for the complete waterline and construction as specified and shown in the drawings. This cost shall also include the restoration of roads and all other structures affected or damaged during the construction.
3. **Install Fire Hydrants.**                      7 - EA                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, backfill, compaction and testing, thrust blocks and all concrete works required for the complete installation, including connection to the new 6" PVC mainline as specified and shown in the drawings.
4. **Install Air Relief Valves**                      2 - EA                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, backfill and materials for the complete installation of the ARVs as specified and shown in the drawings.
5. **Install Sampling Station**                      1 - EA                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above prices shall include all supervision, labor, equipment, backfill, compaction and testing for the complete installation of the sampling station as specified and shown in the drawings. The location shall be confirmed by the Project Engineer.
6. **Install Service Stub-Outs**                      9 - EA                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above prices shall include all supervision, labor, equipment, backfill, compaction and testing and thrust blocking necessary for the complete installation of the new stub-outs and transfer and relocation of existing water meters as specified in the contract and shown in the drawings.
7. **Install Tie-Ins**                      3 - EA                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above prices shall include all supervision, labor, equipment, backfill, compaction and testing and concreting for the complete installation as specified and shown in the drawings.
8. **Pipe Flushing/Hydrostatic**                      1 - LS                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_.  
Above price shall include all supervision, labor, equipment, materials and services required for flushing and hydro-testing of the new 6" pipeline, fittings, fire hydrants, all valves and stub-outs as defined and shown in the Contract Documents. The required water will be charged to the contractor. Proper disposal of the used water is the responsibility of the contractor and must be approved by ASPA.
9. **Pipe Disinfection**                      1 - LS                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, materials and services required for disinfecting the new 6" pipeline, fittings, fire hydrants, all valves and stub-outs as defined and shown in the Contract Documents. The required water will be charged to the contractor. Proper disposal of the used water is the responsibility of the contractor and must be approved by ASPA.
10. **AS-BUILT/SURVEY**                      1 - LS                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all necessary costs to produce an AS-BUILT that conforms to ASPA's

standards as shown in the Technical Specs and Contract Documents.

**Total Bid:** \_\_\_\_\_ \$ \_\_\_\_\_  
(Amount in Words)

### **III. Lautogia Site:**

1. **Mobilization/  
Demobilization**                      1 - LS                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_
2. **Install 6" PVC Pipe.**                      2,000 LF                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all supervision, **certified personnel in PVC installation**, labor, equipment, backfill and compaction tests for the complete waterline and construction as specified and shown in the drawings. This cost shall also include the restoration of roads and all other structures affected or damaged during the construction.
3. **Install Fire Hydrants.**                      3 - EA                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, backfill, compaction and testing, thrust blocks and all concrete works required for the complete installation, including connection to the new 6" PVC mainline as specified and shown in the drawings.
4. **Install Air Relief Valves**                      1 - EA                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, backfill and materials for the complete installation as specified and shown in the drawings.
5. **Install Sampling Station**                      1 - EA                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above prices shall include all supervision, labor, equipment, backfill, compaction and testing for the complete installation of the sampling station as specified and shown in the drawings. The location shall be confirmed by the Project Engineer.
6. **Install Service Stub-Outs**                      8 - EA                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above prices shall include all supervision, labor, equipment, backfill, compaction and testing and thrust blocking necessary for the complete installation of the new stub-outs and transfer and relocation of existing water meters as specified in the contract and shown in the drawings.
7. **Install Tie-Ins**                      2 - EA                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above prices shall include all supervision, labor, equipment, backfill, compaction and testing and concreting for the complete installation as specified and shown in the drawings.
8. **Pipe Flushing/Hydrostatic**                      1 - LS                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, materials and services required for flushing and hydro-testing of the new 6" pipeline, fittings, fire hydrants, all valves and stub-outs as defined and shown in the Contract Documents. The required water will be charged to the contractor. Proper disposal of the used water is the responsibility of the contractor and must be approved by ASPA.

9. **Pipe Disinfection** 1 - LS \$ \_\_\_\_\_ \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, materials and services required for disinfecting the new 6" pipeline as defined and shown in the Contract Documents. The required water will be charged to the contractor. Proper disposal of the used water is the responsibility of the contractor and must be approved by ASPA.

10. **AS-BUILT/SURVEY** 1 - LS \$ \_\_\_\_\_ \$ \_\_\_\_\_  
Above price shall include all necessary costs to produce an AS-BUILT that conforms to ASPA's standards as shown in the Technical Specs and Contract Documents.

**Total Bid:** \_\_\_\_\_ \$ \_\_\_\_\_  
(Amount in Words)

#### **IV. Fagaima Site:**

1. **Mobilization/  
Demobilization** 1 - LS \$ \_\_\_\_\_ \$ \_\_\_\_\_
2. **Install 6" PVC Pipe.** 2,250 LF \$ \_\_\_\_\_ \$ \_\_\_\_\_  
Above price shall include all supervision, **certified personnel in PVC installation**, labor, equipment, backfill and compaction tests for the complete waterline and construction as specified and shown in the drawings. This cost shall also include the restoration of roads and all other structures affected or damaged during the construction.
3. **Install Fire Hydrants.** 3 - EA \$ \_\_\_\_\_ \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, backfill, compaction and testing, thrust blocks and all concrete works required for the complete installation, including connection to the new 6" PVC mainline as specified and shown in the drawings.
4. **Install Air Relief Valves** 2 - EA \$ \_\_\_\_\_ \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, backfill and materials for the complete installation as specified and shown in the drawings.
5. **Install Sampling Station** 1 - EA \$ \_\_\_\_\_ \$ \_\_\_\_\_  
Above prices shall include all supervision, labor, equipment, backfill, compaction and testing for the complete installation of the sampling station as specified and shown in the drawings. The location shall be confirmed by the Project Engineer.
6. **Install Service Stub-Outs** 19 - EA \$ \_\_\_\_\_ \$ \_\_\_\_\_  
Above prices shall include all supervision, labor, equipment, backfill, compaction and testing and thrust blocking necessary for the complete installation of the new stub-outs and transfer and relocation of existing water meters as specified in the contract and shown in the drawings.
7. **Install Tie-Ins** 3 - EA \$ \_\_\_\_\_ \$ \_\_\_\_\_  
Above prices shall include all supervision, labor, equipment, backfill, compaction and testing and

concreting for the complete installation as specified and shown in the drawings.

8. **Pipe Flushing/Hydrostatic**                      1 - LS    \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, materials and services required for flushing and hydro-testing of the new 6" pipeline, fittings, fire hydrants, all valves and stub-outs as defined and shown in the Contract Documents. The required water will be charged to the contractor. Proper disposal of the used water is the responsibility of the contractor and must be approved by ASPA.
9. **Pipe Disinfection**                                      1 - LS    \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, materials and services required for disinfecting the new 6" pipeline as defined and shown in the Contract Documents. The required water will be charged to the contractor. Proper disposal of the used water is the responsibility of the contractor and must be approved by ASPA.
10. **AS-BUILT/SURVEY**                                      1 - LS    \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all necessary costs to produce an AS-BUILT that conforms to ASPA's standards as shown in the Technical Specs and Contract Documents.

**Total Bid:** \_\_\_\_\_                      \$ \_\_\_\_\_  
*(Amount in Words)*

## **V.      Faleniu Site:**

1. **Mobilization/  
Demobilization**                                      1 - LS    \$ \_\_\_\_\_                      \$ \_\_\_\_\_
2. **Install 6" PVC Pipe.**                      4,530 LF                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all supervision, **certified personnel in PVC installation**, labor, equipment, backfill and compaction tests for the complete waterline and construction as specified and shown in the drawings. This cost shall also include the restoration of roads and all other structures affected or damaged during the construction.
3. **Install Fire Hydrants.**                                      11 - EA    \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, backfill, compaction and testing, thrust blocks and all concrete works required for the complete installation, including connection to the new 6" PVC mainline as specified and shown in the drawings.
4. **Install Air Relief Valves**                                      2 - EA    \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, backfill and materials for the complete installation as specified and shown in the drawings.
5. **Install Sampling Station**                                      2 - EA    \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above prices shall include all supervision, labor, equipment, backfill, compaction and testing for the complete installation of the sampling station as specified and shown in the drawings. The location shall be confirmed by the Project Engineer.

6. **Install PRV/PSV** 2 - EA \$ \_\_\_\_\_ \$ \_\_\_\_\_  
 Above prices shall include all supervision, labor, equipment, backfill, compaction and testing for the complete installation of the Pressure Reducing/Sustaining Valves as specified and shown in the drawings. The cost shall also include the construction of a vault as specified and shown on the drawings.
7. **Install Inline Meters** 1 - EA \$ \_\_\_\_\_ \$ \_\_\_\_\_  
 Above prices shall include all supervision, labor, equipment, backfill, compaction and testing for the complete installation of the Inline Meters as specified and shown in the drawings. The cost shall also include the construction of a vault as specified and shown on the drawings.
8. **Install Service Stub-Outs** 23 - EA \$ \_\_\_\_\_ \$ \_\_\_\_\_  
 Above prices shall include all supervision, labor, equipment, backfill, compaction and testing and thrust blocking necessary for the complete installation of the new stub-outs and transfer and relocation of existing water meters as specified in the contract and shown in the drawings.
9. **Install Tie-Ins** 4 - EA \$ \_\_\_\_\_ \$ \_\_\_\_\_  
 Above prices shall include all supervision, labor, equipment, backfill, compaction and testing and concreting for the complete installation as specified and shown in the drawings.
10. **Pipe Flushing/Hydrostatic** 1 - LS \$ \_\_\_\_\_ \$ \_\_\_\_\_  
 Above price shall include all supervision, labor, equipment, materials and services required for flushing and hydro-testing of the new 6" pipeline, fittings, fire hydrants, all valves and stub-outs as defined and shown in the Contract Documents. The required water will be charged to the contractor. Proper disposal of the used water is the responsibility of the contractor and must be approved by ASPA.
11. **Pipe Disinfection** 1 - LS \$ \_\_\_\_\_ \$ \_\_\_\_\_  
 Above price shall include all supervision, labor, equipment, materials and services required for disinfecting the new 6" pipeline as defined and shown in the Contract Documents. The required water will be charged to the contractor. Proper disposal of the used water is the responsibility of the contractor and must be approved by ASPA.
12. **AS-BUILT/SURVEY** 1 - LS \$ \_\_\_\_\_ \$ \_\_\_\_\_  
 Above price shall include all necessary costs to produce an AS-BUILT that conforms to ASPA's standards as shown in the Technical Specs and Contract Documents.

**Total Bid:** \_\_\_\_\_ \$ \_\_\_\_\_  
 (Amount in Words)

## **VI. Fogagogo Site:**

1. **Mobilization/  
 Demobilization** 1 - LS \$ \_\_\_\_\_ \$ \_\_\_\_\_

2. **Install 6" PVC Pipe.**                      5,800 LF                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all supervision, **certified personnel in PVC installation**, labor, equipment, backfill and compaction tests for the complete waterline and construction as specified and shown in the drawings. This cost shall also include the restoration of roads and all other structures affected or damaged during the construction.
3. **Install Fire Hydrants.**                      11 - EA                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, backfill, compaction and testing, thrust blocks and all concrete works required for the complete installation, including connection to the new 6" PVC mainline as specified and shown in the drawings.
4. **Install Air Relief Valves**                      3 - EA                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, backfill and materials for the complete installation as specified and shown in the drawings.
5. **Install Sampling Station**                      1 - EA                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above prices shall include all supervision, labor, equipment, backfill, compaction and testing for the complete installation of the sampling station as specified and shown in the drawings. The location shall be confirmed by the Project Engineer.
6. **Install Inline meters**                      1 - EA                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above prices shall include all supervision, labor, equipment, backfill, compaction and testing for the complete installation of the Inline Meters as specified and shown in the drawings. The cost shall also include the construction of a vault as specified and shown on the drawings.
7. **Install Service Stub-Outs**                      25 - EA                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above prices shall include all supervision, labor, equipment, backfill, compaction and testing and thrust blocking necessary for the complete installation of new stub-outs and transfer and relocation of existing water meters as specified in the contract and shown in the drawings.
8. **Install Tie-Ins**                      2 - EA                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above prices shall include all supervision, labor, equipment, backfill, compaction and testing and concreting for the complete installation as specified and shown in the drawings.
9. **Pipe Flushing/Hydrostatic**                      1 - LS                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, materials and services required for flushing and hydro-testing of the new 6" pipeline, fittings, fire hydrants, all valves and stub-outs as defined and shown in the Contract Documents. The required water will be charged to the contractor. Proper disposal of the used water is the responsibility of the contractor and must be approved by ASPA.
10. **Pipe Disinfection**                      1 - LS                      \$ \_\_\_\_\_                      \$ \_\_\_\_\_  
Above price shall include all supervision, labor, equipment, materials and services required for disinfecting the new 6" pipeline as defined and shown in the Contract Documents. The required water will be charged to the contractor. Proper disposal of the used water is the responsibility of the contractor and must be approved by ASPA.



11. **AS-BUILT/SURVEY**

**1- LS**    \$ \_\_\_\_\_    \$ \_\_\_\_\_

Above price shall include all necessary costs to produce an AS-BUILT that conforms to ASPA's standards as shown in the Technical Specs and Contract Documents.

**Total Bid:** \_\_\_\_\_    \$ \_\_\_\_\_  
*(Amount in Words)*

IN WITNESS THEREOF, the undersigned has caused this instrument to be executed by its duly authorized officers on this day of \_\_\_\_\_, 2020.

**BIDDER:**

By: \_\_\_\_\_

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

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

## **SCOPE OF WORK**

### **“HDPE Pipes Upgrade and Replacement Project”**

#### **I. BACKGROUND**

This project will serve and benefit all residents of American Sāmoa. The 2010 and 2013 US-EPA/AS-EPA Sanitary Survey of the ASPA Public Water System identified several significant deficiencies in the system with the high Non-Revenue Water being a major one. The majority of leaks detected on the water mains were found at the ACP joints and HDPE pipes.

The total length of HDPE pipes in the Tualauta area system is more than 70,000 LF. This project will upgrade and replace approximately 22,000 LF of existing 2” and 1” HDPE pipes with 6”Ø PVC-O water lines. All proposed work will occur within the footprint of existing ASPA facilities or existing road right-of-way

#### **II. SCOPE OF WORK:**

- 1) **MOBILIZATION, TRANSPORTATION & DEMOBILIZATION** - This work includes: acquiring a staging area and land use permit by the selected contractor. Mobilization of equipment and construction material. Site office conducive to site meetings and of use by ASPA Personnel while on the site and site toilet construction. Installation of project sign billboard with graphics layout to be approved by ASPA.
- 2) **SITE WORK** - This works include: clearing and grubbing for pipe alignment. Cleanup and disposal of trees, shrubs and all debris accumulated from clearing activities
- 3) **EROSION CONTROL (BMP)** - This work includes: Obtaining an approved ESC plan from ASEPA and proper installation of these measures to comply with ASEPA’s recommendations. This includes ongoing maintenance of erosion control measures in the duration of the project until its completion.
- 4) **WATERLINE INSTALLATION** – This work includes: installation of approximately 22,000 LF of 6”Ø PVC-O waterline. This work will include trenching, sand bedding and pipe cushion laying and compaction, backfilling, installation of warning tape and/or tracer wire. This includes the repair and restoration of existing roads.
- 5) **SERVICE LATERAL** – This work includes installation of approximately 10,000 LF of 2”Ø and 1” Ø service laterals from the new mainline to each customer's water meter. This also includes the transfer and relocation of the existing customer meters.
- 6) **INSTALL PRV/PSV** – This work includes installation of a PRV/PSV, construction of CMU/concrete vault with cover, and installation of all piping required for installation of 4”Ø pressure relief valve/pressure sustaining valve combination.
- 7) **INSTALL FIRE HYDRANT** – This work includes installation of fire hydrant assembly. It includes trenching and excavation, installation of required piping, concrete pads and thrust blocks, and structure backfilling.
- 8) **INSTALL ARV** – This work includes: installation of air relief valves. It includes excavation, installation of required piping, concrete pad, and installation of ARV enclosure.

- 9) **LEAK TEST AND DISINFECTION** – This work includes: pressure testing and disinfection of waterlines with all fittings and laterals per specification.
- 10) **As-built/Survey** - This includes surveying services to be done while the pipe is installed in the open trench. Three shots are to be taken from each end of the 20" pipe and a shot from the center. Contractor shall submit electronic drafts to the Project Engineer every 2000LF of accomplished pipe installation.