# ATTACHMENT B

# **BID FORM**

# **ASPA21.010.WTR**

TO:		American Samoa Po	ower Authority, Attn: 1	Procurement Manager.		
AD	DRESS:	PO Box PPB, Pago Pago, American Samoa 96799.				
TIT	LE:	"HDPE Pipes Upgrade	& Replacement Project	– Tualauta Phase I.		
RFF	<b>'</b> #:					
BID	DER:					
DA	ГЕ:		_, 2020.			
BAS	SE BID					
ITE	M DESCRIPTION	EST.QTY	PRICE PER UNIT	TOTAL PRICE		
]	I. Vienna S	ite:				
1.	Mobilization/ Demobilization	1 - LS	\$	\$		
2.	backfill and comp	include all supervision, action tests for the coms s cost shall also include	plete waterline and cons	\$ VC installation, labor, equipment, struction as specified and shown in and all other structures affected or		
3.	blocks and all con	include all supervision,	r the complete installation	\$fill, compaction and testing, thrust on, including connection to the new		
4.	blocks and all con	include all supervision, crete works required fo	r the complete installation	\$fill, compaction and testing, thrust on of the PSV/PRV. This cost shall PVC mainline as specified and		

5.	installation of the inline meter as Vault construction and pipe con	pervision, is specified	labor, eq and sho	\$uipment, backfill and materials for the complete wn in the drawings. This cost shall include the 6" PVC mainline as specified and shown in the
	drawings.			
6.	Install Sampling Station			\$
		pling stat	ion as sp	quipment, backfill, compaction and testing for the pecified and shown in the drawings. The location
7.	Install Service Stub-Outs	9 - FA	s	\$
,.	Above prices shall include all su thrust blocking necessary for the	pervision, complete	labor, ed installat	quipment, backfill, compaction and testing and ion of the new stub-outs and transfer and he contract and shown in the drawings.
8.	Install Tie-Ins	1 - EA	\$	\$
		pervision,	labor, ed	quipment, backfill, compaction and testing and
9.	Pipe Flushing/Hydrostatic	1 - LS	\$	\$
	Above price shall include all sup flushing and hydro-testing of the defined and shown in the Contra	pervision, I e new 6" p act Docum	labor, eq ipeline, f nents. Th	uipment, materials and services required for fittings, fire hydrants, all valves and stub-outs as e required water will be charged to the contractor. Lity of the contractor and must be approved by
10.	Pipe Disinfection	1 - LS	\$	\$
10.	Above price shall include all sup disinfecting the new 6" pipeline	oervision, l as defined tractor. Pr	labor, eq l and sho oper disp	uipment, materials and services required for wn in the Contract Documents. The required posal of the used water is the responsibility of the
11.	AS-BUILT/SURVEY	1 - LS	\$	\$
•		essary cos	sts to pro	duce an AS-BUILT that conforms to ASPA's
Tota	ıl Bid:			<b>\$</b>
1011	(Amount in W			Ψ

II. Fatu o Aiga Site:

shown in the drawings.

1.	Mobilization/ Demobilization	1- LS	\$	\$
2.	equipment, backfill and o	compaction tests gs. This cost shal	for the complet I also include t	snnel in PVC installation, labor, waterline and construction as specified he restoration of roads and all other
3.	_	e all supervision, orks required for	the complete i	ent, backfill, compaction and testing, thrust nstallation, including connection to the new
4.	<b>Install Air Relief Valves</b> Above price shall include installation of the ARVs a	all supervision,		ent, backfill and materials for the complete
5.	_	le all supervision the sampling sta	tion as specifie	\$ nent, backfill, compaction and testing for the d and shown in the drawings. The location
6.	thrust blocking necessary	e all supervision for the complete	e installation of	ent, backfill, compaction and testing and the new stub-outs and transfer and stract and shown in the drawings.
7.	Install Tie-Ins Above prices shall include concreting for the complete	e all supervision		ent, backfill, compaction and testing and
8.	flushing and hydro-testir defined and shown in the	e all supervision, ag of the new 6" per Econtract Documents	oipeline, fittings nents. The requ	\$ ent, materials and services required for s, fire hydrants, all valves and stub-outs as ired water will be charged to the contractor. the contractor and must be approved by
9.	disinfecting the new 6" pi shown in the Contract Do	peline, fittings, focuments. The re	ire hydrants, al quired water w	sent, materials and services required for l valves and stub-outs as defined and rill be charged to the contractor. Proper tractor 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

Tot	al Bid:			<b> \$</b>
	(Amou	nt in Words)		
	III. Lautogia Site:			
1.	Mobilization/ Demobilization	1 - LS	\$	\$
2.	equipment, backfill and o	compaction tests f ags. This cost shall	for the comp l also includ	sersonnel in PVC installation, labor, plete waterline and construction as specified de the restoration of roads and all other on.
3.	-	e all supervision, l orks required for	labor, equip the comple	s  oment, backfill, compaction and testing, thrust ete installation, including connection to the new ngs.
4.	Install Air Relief Valves Above price shall include installation as specified a	e all supervision,	labor, equip	sment, backfill and materials for the complete
5.	_	de all supervision, the sampling stat	, labor, equi ion as spec	\$ ipment, backfill, compaction and testing for the ified and shown in the drawings. The location
6.	thrust blocking necessary	le all supervision,  for the complete	labor, equi installatior	\$sipment, backfill, compaction and testing and n of the new stub-outs and transfer and contract and shown in the drawings.
7.				\$sipment, backfill, compaction and testing and and shown in the drawings.
8.	Above price shall include flushing and hydro-testing defined and shown in the	e all supervision, I ng of the new 6" p e Contract Docum	labor, equip pipeline, fitti nents. The re	\$  oment, materials and services required for ings, fire hydrants, all valves and stub-outs as equired water will be charged to the contractor. To of the contractor and must be approved by

standards as shown in the Technical Specs and Contract Documents.

9.	Pipe Disinfection	1 - L	S \$	<b>\$</b>			
	Above price shall incl			ipment, materials and services required for			
	-	-	_	wn in the Contract Documents. The required			
	water will be charged	to the contractor.	Proper disp	osal of the used water is the responsibility of the			
	contractor and must b	e approved by AS	PA.				
10.	AS-BUILT/SURVEY	1 - L	S \$	<b>\$</b>			
				duce an AS-BUILT that conforms to ASPA's			
	standards as shown ir	n the Technical Spe	cs and Con	tract Documents.			
_				_			
Tot	al Bid:(An	, , TA7 7 )		<u> </u>			
	(An	iount in Words)					
	TT						
	IV. Fagaima Site	2.					
1	Mobilization/						
1.	Demobilization	1 - LS	\$	¢			
	Demodifization	1 - L3	Φ	Φ			
2.	Install 6" PVC Pipe.	2,250 LF	\$				
۷٠	_			personnel in PVC installation, labor,			
	_	_		mplete waterline and construction as specified			
		•		ude the restoration of roads and all other			
	structures affected or	-					
		anningen anning n					
3.	Install Fire Hydrants.	3 - E.	A \$	<b>\$</b>			
				iipment, backfill, compaction and testing, thrust			
	_	_	_	blete installation, including connection to the new			
	6" PVC mainline as sp	-	_	~			
4.	Install Air Relief Val			<b>\$</b>			
	Above price shall incl	ude all supervisior	ı, labor, equ	sipment, backfill and materials for the complete			
	installation as specifie	ed and shown in th	e drawings				
5.	Install Sampling Stat			<b>\$</b>			
	Above prices shall include all supervision, labor, equipment, backfill, compaction and testing for the						
	-		_	ecified and shown in the drawings. The location			
	shall be confirmed by	the Project Engine	er.				
6	Imatall Causian Chule (	Desta 10 1	Γ <b>Λ</b> Φ	¢.			
6.	Install Service Stub-C	Juts 19 - I	EA D				
	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						
	•			ne contract and shown in the drawings.			
	relocation of existing	water meters as spi	conteu III II	ic contract and shown in the drawings.			
7.	Install Tie-Ins	3 - E	A \$	\$			
٠.	Above prices shall inc	lude all supervisio	n, labor, ed	uipment, backfill, compaction and testing and			
	1						

	concreting for the complet	te installation as	specified	and shown in the drawings.	
8.	flushing and hydro-testing defined and shown in the	all supervision, l g of the new 6" p Contract Docum	abor, equi ipeline, fit ents. The	\$uipment, materials and services required for ittings, fire hydrants, all valves and stub-outs required water will be charged to the contractity of the contractor and must be approved by	cto
9.	Above price shall include disinfecting the new 6" pip	all supervision, l peline as defined ne contractor. Pro	labor, equ and show oper dispo	\$suipment, materials and services required for wn in the Contract Documents. The required posal of the used water is the responsibility of	the
10.	AS-BUILT/SURVEY Above price shall include standards as shown in the	all necessary cos	ts to prod	\$duce an AS-BUILT that conforms to ASPA's stract Documents.	
Γota	ıl Bid:			\$	
	(Amoun	t in Words)			
1.	V. Faleniu Site:  Mobilization/ Demobilization	1-LS	\$	\$	
2.	equipment, backfill and co	ompaction tests f gs. This cost shall	or the con also inclu	\$	1
3.	-	all supervision, l orks required for	labor, equ the comp	\$uipment, backfill, compaction and testing, throplete installation, including connection to the wings.	
4.	Install Air Relief Valves Above price shall include installation as specified an	all supervision, l	abor, equ	\$uipment, backfill and materials for the comple	te
5.	_	e all supervision, ne sampling stat	labor, equion as spe	\$quipment, backfill, compaction and testing for ecified and shown in the drawings. The loca	

6.	Install PRV/PSV	2 - EA	<b>\$</b>	\$	
	complete installation of	the Pressure Re	ducing/Sust	ipment, backfill, compaction and testing for taining Valves as specified and shown in tion of a vault as specified and shown on	th
7.	Install Inline Meters	1 - EA	\$	<b>\$</b>	
		e all supervision ne Inline Meters a	, labor, equi as specified	ipment, backfill, compaction and testing for I and shown in the drawings. The cost shall a	
8.	Install Service Stub-Outs	23 - EA	<b>A</b> \$	<b>\$</b>	
	thrust blocking necessary	for the complete	installation	ipment, backfill, compaction and testing and nof the new stub-outs and transfer and contract and shown in the drawings.	
9.	Install Tie-Ins	4 - EA	\$	<b>\$</b>	
	-	e all supervision,	, labor, equi	ipment, backfill, compaction and testing and nd shown in the drawings.	
10.	Pipe Flushing/Hydrostati	ic 1 - LS	\$	<b>\$</b>	
	flushing and hydro-testing defined and shown in the	g of the new 6" p Contract Docum	pipeline, fitt nents. The re	pment, materials and services required for tings, fire hydrants, all valves and stub-outs a required water will be charged to the contrac y of the contractor and must be approved by	
11.	Pipe Disinfection	1 - LS	\$	\$	
	Above price shall include disinfecting the new 6" pi	all supervision, peline as defined he contractor. Pr	labor, equip l and showr oper dispos	pment, materials and services required for n in the Contract Documents. The required sal of the used water is the responsibility of t	he
12.	AS-BUILT/SURVEY	1 - LS	\$	\$	
		all necessary cos	sts to produ	ice an AS-BUILT that conforms to ASPA's	
Tota	al Bid:			\$	
		t in Words)			
	VI. Fogagogo Site:				
1.	Mobilization/				
	Demobilization	1 - LS	\$	<b></b> \$	

2.	Install 6" PVC Pipe. 5	,800 LF	\$	<b></b>	
	equipment, backfill and com	paction tests t This cost shal	for the comp l also includ	rsonnel in PVC installation, laborablete waterline and construction as de the restoration of roads and all con.	specified
3.	Install Fire Hydrants.	11 - EA	A \$	\$	
	Above price shall include all	supervision, s required for	labor, equip the comple	oment, backfill, compaction and tes te installation, including connectio	-
4.	Install Air Relief Valves	3 - EA	\$	<b>\$</b>	
	Above price shall include all installation as specified and	supervision,	labor, equip	oment, backfill and materials for the	e complete
5.	Install Sampling Station	1 - EA	\$	<b> \$</b>	_
	Above prices shall include a	ll supervision sampling stat	, labor, equi ion as speci	pment, backfill, compaction and te ified and shown in the drawings.	esting for the
6.	Install Inline meters	1 - EA	\$	<b>\$</b>	_
	Above prices shall include a	ll supervision nline Meters a	, labor, equi as specified	pment, backfill, compaction and te and shown in the drawings. The co	esting for the
7.	Install Service Stub-Outs	25 - EA	<b>A</b> \$	<b>\$</b>	
	Above prices shall include a	ll supervision, r the complete	, labor, equi installatior	pment, backfill, compaction and te n of new stub-outs and transfer and	esting and
8.	Install Tie-Ins	2 - EA	\$	<b></b> \$	
		ll supervision	, labor, equi	pment, backfill, compaction and te	sting and
9.	Pipe Flushing/Hydrostatic	1 - LS	\$	\$	_
	flushing and hydro-testing of defined and shown in the Co	of the new 6" pontract Docum	pipeline, fitti nents. The re	oment, materials and services requiings, fire hydrants, all valves and sequired water will be charged to the of the contractor and must be app	tub-outs as ne contractor
10.	Pipe Disinfection	1 - LS	\$	\$	_
	Above price shall include all disinfecting the new 6" pipel	supervision, ine as definec contractor. Pr	labor, equip l and showr oper dispos	oment, materials and services requing in the Contract Documents. The real of the used water is the responsi	equired

necessary costs to produc	ce an AS-BUILT that confor	
Words)	\$	
		ecuted by its duly
	words)  ndersigned has caused f	Mords)  Indersigned has caused this instrument to be executed the executed factorized the executed factorized the executed factorized factorize

### **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.