THERESA G. ROJAS, ESQ.

Legal Counsel

Guam Waterworks Authority

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BEFORE THE GUAM PUBLIC UTILITIES COMMISSION

IN THE MATTER OF:

THE PETITION OF THE GUAM
WATERWORKS AUTHORITY TO
APPROVE CHANGE ORDER NO.
5 WITH GIANT CONSTRUCTION
CORP. FOR GROUNDWATER
PRODUCTION METER
REPLACEMENT PROJECT: GWA
PROJECT NO. W19-001-BND.

GWA DOCKET NO. 22-02

PETITION FOR PUC REVIEW TO APPROVE CHANGE ORDER NO. 5 WITH GIANT CONSTRUCTION CORP. FOR THE GROUNDWATER PRODUCTION METER REPLACEMENT PROJECT

COMES NOW, the GUAM WATERWORKS AUTHORITY ("GWA"), by and through its counsel of record, THERESA G. ROJAS, ESQ., and hereby files its Petition for PUC Review to Approve Change Order No. 5 with Giant Construction Corporation "Giant Construction Corp." for the Groundwater Production Meter Replacement Project. This request is made prior to but in anticipation of an approval on GWA Resolution No. 02-FY2022 to be voted upon on October 26, 2021, during the Guam CCU's regular Board meeting.

BACKGROUND

In 2017, Guam Waterworks Authority sought to develop and implement a Groundwater Production Meter Replacement Project for 60 critical production wells. The main objective of this project is to get accurate measurements of the volume of groundwater produced from the wells.

GWA Docket 22-02

Approval: Change Order No. 5, Giant Construction Corp.- Meter Replacement Project Page 1 of 4

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Completion of this project will be critical to GWA's water loss control program on meeting its overall water loss control objectives.

Work for the Groundwater Production Meter Replacement Project was awarded to Giant Construction Corp. through IFB-05-ENG-2019 the only bidder. The Guam Consolidated Commission on Utilities ("CCU") via Guam Waterworks Resolution 04-FY2020 and the PUC through GWA Docket No. 20-02 authorized and approved GWA to move forward with its Groundwater Production Meter Replacement Project with Giant Construction Corp. and enter a contract. The original scope of the project was to replace faulty groundwater production meters and above-ground discharge piping at 60 critical production wells; however, in anticipation of a funding shortfall, the bid schedule was divided into a Basic Bid, Additive Bid No. 1 and Additive Bid No. 2. Under the Basic Bid schedule, only work for 30 deep wells of the 60 was awarded though GWA included provisions in the bid such that if additional funding was obtained after the contract was executed, any or all Bid items not exercised could be restored via Change Order.

In January 2020, the PUC through GWA Docket No. 20-02 authorized a total contract cost of \$1,379,405.00 for the Groundwater Meter Replacement Project for 30 of the 60 wells. The PUC also authorized a 10% contingency of \$137,940.50, increasing total authorized contract costs to \$1,517,345.50.

GWA has approved Change Order Nos. 1, 2, and 3 with Giant Construction Corp. under authorized contingency funding, increasing the total authorized contract from \$1,379,405.00 to \$1,443,409.43. Under the \$1,443,409.43 amounts, Giant Construction Corp. has substantially completed the replacement of the meters and above-ground discharge piping for the 30 critical production wells to include 28 production wells originally listed in the Basic Bid Schedule. GWA now seeks approval of Change Order No. 5, to continue replacement of 15 additional critical production wells and above-ground discharge piping and meters to meet the original intent of the project.

¹ Of the 30 original wells in the Basic Bid Schedule, GWA replaced two (2) of the production wells listed with other wells to accommodate operational restrictions.

Order No. 5, to continue the replacement of the additional 15 critical production wells under the

Groundwater Meter Replacement Project. The amount required for Change Order No. 5 is

\$741,744.65. This amount includes the original bid price of \$687,960 plus an escalation cost of

\$53,784.65. Giant Construction Corp. represents that escalation costs of \$53,784.65 are due to the

increased costs of ductile iron pressure pipe, fittings, and meters but GWA finds these costs reasonable considering the initial bids prices were from September 2019. The current total

authorized contract amount of \$1,517,345.50, plus the proposed Change Order No. 5 of

\$741,744.65 increases the total requested funding amount to \$2,259,090.15. The source of funding

for Change Order No. 5 is GWA bond funds applicable to the project and other funding sources.

At this, PUC approval is still required since the amount of the Groundwater Meter Replacement

Project contract exceeds the original PUC-approved \$1,517,345.50 contract and contingency

approve Change Order No. 5 to Giant Construction Corp. for the Groundwater Meter Replacement

Project. Under Change Order No. 5, construction services for the replacement of faulty flow meters

to standardize well head discharge piping for 15 critical production wells can continue. This will

improve measurements of groundwater volume produced from the wells to mitigate the under-or-

through GWA Resolution No. 02-FY2022 is anticipated and shall go before the CCU for a vote

during its October 26, 2021 regular meeting. Said draft resolution and its supporting exhibits are

attached herein as Exhibit A and are incorporated by reference herein as if fully set forth. GWA

Resolution No. 02-FY2022 is forthcoming and shall be filed to the PUC for its review and

consideration once final and approved. The PUC's final Order for GWA Docket 20-02 is also

GWA hereby petitions the PUC, pursuant to its Contract Review Protocol, to review and

In support of this Petition, approval of Change Order No. 5 in the amount of \$741,744.65

GWA now requests to increase the existing contract with Additive Bid No. 1, Change

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GWA Docket 22-02

Approval: Change Order No. 5, Giant Construction Corp.- Meter Replacement Project Page 3 of 4

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amounts.

over reported total production.

attached here as Exhibit B.

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CONCLUSION

Based on the foregoing, GWA requests the PUC approve Change Order No. 5 with Giant Construction Corp. for the Groundwater Production Meter Replacement Project in the additional amount of \$741,744.65, increasing the current authorized contract amount of \$1,517,345.50, to a total contract amount of \$2,259,090.15 as it is reasonable, prudent, and necessary.

RESPECTFULLY SUBMITTED this <u>18th</u> day of October, 2021.

By: Theresa G. Rojas Digitally signed by Theresa G. Rojas Date: 2021.10.19 12:20:41 +10'00'

THERESA G. ROJAS GWA General Counsel

GWA Docket 22-02

Approval: Change Order No. 5, Giant Construction Corp.- Meter Replacement Project Page 4 of 4

CONSOLIDATED COMMISSION ON UTILITIES

Guam Power Authority | Guam Waterworks Authority P.O. Box 2977 Hagatna, Guam 96932 | (671)649-3002 | guamccu.org

GWA RESOLUTION NO. 02-FY2022

RELATIVE TO APPROVAL OF CHANGE ORDER NO. 5 FOR THE GROUNDWATER PRODUCTION METER REPLACEMENT PROJECT GWA PROJECT NO. W19-001-BND

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual, and policy matters relative to the Guam Waterworks Authority ("GWA"); and

WHEREAS, the Guam Waterworks Authority ("GWA") is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA retained Brown and Caldwell to develop bid-ready plans and specifications to replace faulty flow meters and to correct and standardize well head discharge piping for improvement in metering accuracy for 60 critical production wells; and

WHEREAS, in anticipation of funding shortfall, the bid schedule was divided into Basic Bid, Additive Bid No.1 and Additive Bid No.2 (See Exhibit C); and

WHEREAS, the bid schedule states in the event the lowest responsive and responsible Bid exceeds the available budget, GWA may reject individual Bid items until the Bid amount fits within the available budget. If additional funding is obtained after the contract is executed, any or all deleted Bid items may be restored via Change Order (See Exhibit C); and

WHEREAS, on October 29, 2019, the CCU approved Resolution 04-FY2020 (See Exhibit D) authorizing GWA Management to enter into a contract with Giant Construction Corporation to provide construction services for the replacement of the above-ground discharge piping and meter for 30 critical production wells to improve measurement of the volume of

groundwater that is produced from the wells and mitigate the under-or-over reported total production; and

WHEREAS, the above noted resolution approved the funding of One million Three Hundred Seventy-Nine Thousand Four Hundred Five Dollars (\$1,379,405.00), along with a ten percent (10%) contingency of One Hundred Thirty-Seven Thousand Nine Hundred Forty Dollars and Fifty Cents (\$137,940.50) to bring the total authorized funding amount to One Million Five Hundred Seventeen Thousand Three Hundred Forty-Five Dollars and Fifty Cents (\$1,517,345.50); and

WHEREAS, to address construction and material supply issues related to the initial Basic Bid scope, GWA Management has subsequently approved Change Order Nos. 1, 2, and 3 (See Exhibit E) with Giant Construction Corporation having an aggregate cost of Sixty-Four Thousand Four Dollars and Forty-Three Cents (\$64,004.43) which increased the total authorized contract value from One million Three Hundred Seventy-Nine Thousand Four Hundred Five Dollars (\$1,379,405.00) to One Million Four Hundred Forty Three Thousand Four Hundred Nine Dollars and Forty Three Cents (\$1,443,409.43), and adjusted the balance of the authorized contingency from One Hundred Thirty-Seven Thousand Nine Hundred Forty Dollars and Fifty Cents (\$137,940.50) to Seventy-Three Thousand Nine Hundred Thirty Six Dollars and Seven Cents (\$73,936.07); and

WHEREAS, due to operational issues on isolating the wells that has been delaying the Contractor's work progress, GWA has replaced two production wells listed in the Basic Bid Schedule with two other production wells with same wellhead size and similar length of the above-ground discharge piping, and is processing a no-cost Change Order no. 4 to reflect the changes (See Exhibit E); and

WHEREAS, Giant Construction Corporation to date has substantially completed the replacement of the above-ground discharge piping and meter for the 30 critical production wells that include 28 production wells listed in the Basic Bid Schedule; and

WHEREAS, GWA Management seeks to continue replacement of the above-ground discharge piping and meter to meet the original intent of the project; and

WHEREAS, GWA Management seeks to change order the existing contract scope with Giant Construction Corporation by adding the 15 critical production wells listed in Additive Bid No. 1; and

WHEREAS, GWA Management seeks CCU approval of Change Order No. 5 (See Exhibit A) with Giant Construction Corporation for Additive Bid No. 1 at the bid price of Six Hundred Eighty-Seven Thousand Nine Hundred-Sixty Dollars (\$687,960.00) plus an escalation cost of Fifty Three Thousand Seven Hundred Eighty-Four Dollars and Sixty Five Cents (\$53,784.65) which will bring the total change order amount to Seven Hundred Forty-One Thousand Seven Hundred Forty-Four Dollars and Sixty Five Cents (\$741,744.65) (See Exhibit B); and

WHEREAS, the escalation cost claimed by Giant Construction Corporation accounts for the increase in price of ductile iron pressure pipe, fittings, and meters from suppliers and are considered reasonable bringing the bid price dated September 27, 2019 to current; and

WHEREAS, the current total authorized amount of One Million Five Hundred Seventeen Thousand Three Hundred Forty-Five Dollars and Fifty Cents (\$1,517,345.50), which consists of the current total contract value of One Million Four Hundred Forty Three Thousand Four Hundred Nine Dollars and Forty Three Cents (\$1,443,409.43) and an adjusted contingency balance of Seventy Three Thousand Nine Hundred Thirty Six Dollars and Seven Cents (\$73,936.07), plus the proposed Change Order No. 5 amount of Seven Hundred Forty-One Thousand Seven Hundred Forty-Four Dollars and Sixty Five Cents (\$741,744.65) will bring the total authorized funding amount to Two Million Two Hundred Fifty Nine Thousand Ninety Dollars and Fifteen Cents (\$2,259,090.15); and

WHEREAS, funding for Change Order no. 5 will be PW 05-07 (Meter Replacement Program) and MP-PW-Misc-02 (Master Meter Implementation and Ongoing Meter Repl.); and

WHEREAS, GWA Management further seeks CCU approval to petition the Public Utilities Commission approval of the contract given this project meets the Contract Review Protocol requirements for GWA projects for which the use of Bond funds is intended.

NOW BE IT THEREFORE RESOLVED; the Consolidated Commission on Utilities does hereby approve the following:

- 1. The recitals set forth above hereby constitute the findings of the CCU.
- 2. The CCU finds that the terms of the conditions set by GWA relative to commencement of work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
- 3. The CCU hereby authorizes the management of GWA to accept the change order proposal from "Giant Construction Corporation." attached hereto as Exhibit A and which is incorporated into this Resolution in its entirety.
- 4. The CCU hereby further authorizes the management of GWA to execute the Change Order No. 5 with "Giant Construction Corporation" in the amount Seven Hundred Forty-One Thousand Seven Hundred Forty-Four Dollars and Sixty-Five Cents (\$741,744.65).
- 5. The CCU hereby further approves the funding of the current authorized amount of One Million Five Hundred Seventeen Thousand Three Hundred Forty-Five Dollars and Fifty Cents (\$1,517,345.50) plus the Change Order No. 5 amount of Seven Hundred Forty-One Thousand Seven Hundred Forty-Four Dollars and Sixty-Five Cents (\$741,744.65) to bring the total authorized funding amount to Two Million Two Hundred Fifty-Nine Thousand Ninety Dollars and Fifteen Cents (\$2,259,090.15).
- The CCU hereby further approves the funding for this Change Order No. 5
 from the 2020 Bond MP-PW-Misc-02 (Master meter Implementation and
 Ongoing Meter Replacement) and 2013 Bond PW 05-07 (Meter Replacement
 Program).
- 7. The CCU hereby further authorizes the management of GWA to petition the PUC's approval of the Change Order No. 5.

	DULY AND REGUI	LARLY ADOPTED, this 26th day of October 2021.
	Certified by:	Attested by:
	•	
	JOSEPH T. DUENA Chairperson	MICHAEL T. LIMTIACO Secretary
		SECRETARY'S CERTIFICATE
	Utilities as evidenced	Limtiaco, Board Secretary of the Consolidated Commission by my signature above do hereby certify as follows: g is a full, true and accurate copy of the resolution duly adopted a
	duly and legally held	ne members of the Guam Consolidated Commission on Utiliti I at a place properly noticed and advertised at which meeting and the members who were present voted as follows:
	duly and legally held quorum was present a AYES: NAYS: ABSENT:	ne members of the Guam Consolidated Commission on Utility I at a place properly noticed and advertised at which meeting
,,,	duly and legally held quorum was present a AYES: NAYS:	ne members of the Guam Consolidated Commission on Utilit I at a place properly noticed and advertised at which meeting
///	duly and legally held quorum was present a AYES: NAYS: ABSENT:	ne members of the Guam Consolidated Commission on Utilit I at a place properly noticed and advertised at which meetin
///	duly and legally held quorum was present a AYES: NAYS: ABSENT:	ne members of the Guam Consolidated Commission on Utilit I at a place properly noticed and advertised at which meetin
	duly and legally held quorum was present a AYES: NAYS: ABSENT:	ne members of the Guam Consolidated Commission on Utilit I at a place properly noticed and advertised at which meetin



CHANGE ORDER NO. 5

Project Title:	GROUNDWATER PRODUCTI	ON METER REPLACEM	IENT		
Project No.:	W19-001-BND IFB N	o. 05-ENG-2019			
Contractor:	GIANT CONSTRUCTION COR	RPORATION		NTP D	ate: APRIL 29,2020
TO: GIANT CO	NSTRUCTION CORPORATION				
You are directed to	make changes noted below in the	e subject contract. The	changes are accep	ted by:	
				•	
Contractor Repre	esentative (PRINT)	PREPARED BY	: Ernesto Villa	rin	Date
oom dotor Hopre	incomative (France)		Project Engine		Date
		REVIEWED BY	: Barbara Cru	- D -	Data
				er Supervisor,	Date GWA
		RECOMMEND			
Contractor Repres	entative (SIGNATURE) Dat	e APPROVAL	:		
			Brett E. Rai	iley, P.E. Engineer, GW <i>A</i>	Date
NATURE OF OUR	NOTO		Acting Chief L	ingineer, GVV	`
1. Scope of Chan					
	, all the 30 deep wells included in p	project scope have been	substantially comp	leted. The bic	scope of work
prepared by Br	own and Caldwell was intended to	replace the above-groun	nd discharge piping	g and meter for	r the 60 high
production well	s. In anticipation of a funding shor	tfall, the bid schedule wa	s broken down to	1) Basic Bid fo	or 30 wells, (2)
Additive Bid No	b. 1 for 15 wells, and (3) Additive b	id No. 2 for another 15 w	ells. The bid sche	dule has a pro	vison that states
"In the event th	e lowest responsive and responsil	ble Bid exceeds the avail	able budget, GWA	may reject inc	dividual Bid items
deleted Rid iter	nount fits within the available budge ons may be restored via change ore	ət. II additional funding is dor"	obtained after the	contract is exe	ecuted, any and all
In line with orig	inal intent of the project to improve	e measurement of volume	e of groundwater th	nat is produced	from the wells
and mitigate the	e under-or-over reported total prod	duction, this change orde	r will add to the orig	ginal project so	cope the 15 deep
	Additive Bid No. 1.				
2. Net Change in	Cost - \$741,744.65				
3. Contract Time	Extension - 215 calendar days fror	m the approval of the cha	inge order.		
	ESULT IN THE FOLLOWING AD.				
				\$	1,443,409.43
	and the second s				
	on the original			\$	741,744.65
Revised contract p	rice after this Change Order			\$	2,185,154.08
THE CHANGES R	ESULT IN THE FOLLOWING AD.	JUSTMENT OF CONTRA	ACT TIME:		
Contract time prior	to this Change Order, with breakd	lown given below		624 Ca	alendar Days
Net INCREASE fr	rom this Change Order with breakdow	n given below (subject to approved to	erms and conditions)"	215 CE	after CO Approval
Revised contract ti	me after this Change Order			To be adjuste	ed after CO Approval
Revised Contract E	Expiration Date after this Change (Order		To be adjuste	ed after CO Approval
CERTIFIED FUND	S AVAILABLE:				
Vendor No.:	18155				
Contract No.:	832-OS				
Funding Source:	2013 BOND PW 05-07 & MP-PW-M	IISC-02			
G.L. NO.:	W344.105321.420000		Taling M. Taitano	CPA CGEM	Date
Amount:	\$741,744.65		Chief Financial Of		Date
ADDROVED AS TO					
APPROVED AS TO	J FUKIVI:		APPROVED:		
Theresa G. Rojas	Date		Miguel C. Bordallo		Date
Legal Counsel, GV	VA.		General Manager	. GWA	



Sep. 22, 2021

Miguel C. Bordallo, P.E. General Manager Guam Waterworks Authority Gloria B. Nelson Public Service Building 688 Route 15 Mangilao, Guam 96913

Attention: Barbara C. Cruz P.E. / Acting Chief Engineer

Project: Groundwater Well Production Meter Replacement

GWA Project No. W19-001-BND

Subject: Change Order No. 04 - Additive Bid No. 01

Dear Ms. Cruz,

Hafa Adai! As a result of several communications between GWA and Giant Construction Corp. about the subject matter, we are pleased to submit our cost proposal to complete the 15 deep wells listed in Additive Bid No. 01 (See attached bid proposal).

Our bid price for Additive Bid No. 01 was \$687,960.00. On july 7, 2021, we advised GWA of the \$53,784.65 price escalation for piping materials from the bidding date on September 27, 2019 to July 7, 2021, thus increasing the Additive Bid No. 01 price to \$741,744.65.

At your request, we are confirming that Giant Construction Corp. will hold-on the escalated price of \$741,744.65 until November 30, 2021, and that any price increases from the date of this letter up to November 30, 2021 will be absorbed by Giant Construction Corp..

We plan to complete the 15 deep wells included in Additive Bid No. 01 within 210 days from approval date of this change order as shown in the attached work schedule. Please note that actual replacement of the above ground discharge piping will take only 15 weeks for us to complete due experience gained from the original contract.

Your approval of the change order is greatly appreciated. Should you have any question, please feel free to contact me at 489-2713.

Sincerely yours,

Chung, in Chul Vice Preisdent E-mail: giantconst@gmail.com

Tel.: (671) 649-6472 • Fax.: (671) 646-3693

July 7, 2021

Guam Waterworks Authority

Mr. Miguel Bordalio P.E. General Manager Gloria B. Nelson Public Service Building 688 Route 15 Mangila, Guam 96913

Atten: Mr. Ernie Villarin/Project Manager

Project: GWA Project No. W19-001-BND, Additive Bid No. 1

Subject: Material Price Increase for Groundwater Well Production Meter Replacement Project

Dear Mr Villarin!

Giant Construction Corp. kindly requests that GWA reflects the increased material price to the Additive Bid No. 1 for 15 EA deep wells.

The price of materials has changed since the original quotation due to Covid-19. The total cost of Additive Bid No. 1 of 15 deep wells would be \$326,748.38. For your reference, please see the following price changes

ITEM	Original	Additive 1	Difference
DI Spool & Fitting	\$51,227.32	\$82,745.12	\$31,517.80
Check valve & Butterfly valve etc.,	\$97,973.67	\$96,462.21	-\$1,511.46
3. HDG valve and Fitting	\$12,412.27	\$13,925.60	\$1,513.33
PVC pipe and Fitting	\$3,782.53	\$5,642.78	\$1,860.25
5. Pipe support	\$19,454.69	\$24,393.14	\$4,938.45
6. Freight	\$14,643.25	\$15,049.53	\$406.28
7. Water Flow meter15 ea	\$73,470.00	\$88,530.00	\$15,060.00
TOTAL of Well 15 ea	\$272,963.73	\$326,748.38	\$53,784.65

Your kind consideration will be greatly appreciated. Should you have any questions, please feel free to contact us.

Sincerely yours,

Inchul Chung/Vice-President

Sep. 22, 2021

Guam Waterworks Authority

Project: Groundwater Well Production Meter Replacement
Subject: Sequence of construction and work schedule

		PRO	ECT TITLE	- GROUNDW	VΔT	FRI	WELL	ppr	DU	OIT	ME.	TEP	DE	OI AC	EM	MT I	DDA	10	CT.			e Notes			1 90	- C	T-Comme				100			
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		T		DURATION	_	Dec		+	_	an-2	****	-	_	-22	-			_	_	_			_			_	_							-
ITEMS	TASKS	START	END	WORK DAYS				7 3	10	an-2.	22 31	7	14	21	28	7 1/	ar-2	1 2	1 4	Ap	12	55	51	Ma	16 T	22 1	20	Ju	n-22	2	-	Jul-	22	25
1	Submitaals/shop Drawing	12.06.21	12.20.21	16				T	1			T	-		1	1	1	T	+	1	10			1	-	23	30	-	120	121	-		10	25
2	Permits	12.06.21	2.06.22	62									T		\top	†	†	t	†	t			\forall	\forall	\forall	+	+	+	+	+	Н	\vdash	+	_
3	Ordering of Materials	12.20.21	03.20.22	90	Г			T	П									t	$^{+}$	\vdash			\forall	7	\forall	+	$^{+}$	+	+	+	Н	\vdash	+	-
4	Meter Testing at GWA/MTF	03.21.22	04.03.21	13				T			T	T	T		1	T				t			\forall	\forall	\forall	\forall	$^{+}$	+	+	+	Н	\dashv	\forall	-
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6	Pressure Test and Disinfection	04.04.22	5.01.22	27				T		H	1	T	Т		1	+		1			20		1	\forall	\forall	+	+	+	+	+	H	\dashv	+	-
7	Field installation	10.11.21	12.27.21	77			1	T	T	\Box	+	T		\Box	†	$^{+}$	T	t					1	+	$^{+}$	+	+	+	+	+	Н	+	+	-
7-1	Well A-15	05.02.22	05.08.22	6				T		\Box	+	T		\vdash	†	+	†	†	$^{+}$	\vdash				\forall	\dashv	+	+	+	+	+	\vdash	+	+	
7-2	Well F-16	05.02.22	05.08.22	6		П		\top	T	H	\top			\Box	1	\top	†	t	†	\vdash		\Box		\forall	$^{+}$	$^{+}$	+	+	+	+	H	+	+	_
7-3	Well D-19	05.09.22	05.15.22	7				\top		\Box	\top	T		\forall	†	+	†	T	$^{+}$	\vdash		\vdash		3	+	+	+	+	+	+	\vdash	+	+	
7-4	Well M-23	05.09.22	05.15.22	7			1	+		\Box	+	\vdash		\Box	\top	+	†	t	$^{+}$	t		Н			+	+	+	+	+	+	Н	+	+	-
7-5	Well A-21	05.16.22	05.22.22	7		П	\top	T	\Box	\vdash	+	T	\vdash	\vdash	+	+	†	†	+	\vdash		H			100	+	+	+	+	+	\vdash	+	+	-
7-6	Well EX-11	05.16.22	05.22.22	7		\Box	1	+	П	\forall	\top			\vdash	\top	+	t	t	†			H	-	+		+	+	+	+	+		+	+	
7-7	Well A-08	05.23.22	05.29.22	7			\top	T	П	H	\top			\forall	\top	+	t	t	†			H		1			+	+	+	+	\vdash	+	+	
7-8	Well D-15	05.23.22	05.29.22	7		\Box	1	T	H	\Box	+			\forall	+	+	t	†	+			Н	+	+			+	+	+	+	\vdash	+	+	
7-9	Well F-19	05.30.22	06.05.22	7		\Box	\top	+	\Box	\top	+			\forall	+	+	$^{+}$	†	T	1		Н	1	+	-		60	+	+	+	\vdash	+	+	-
7-10	Well F-20	05.30.22	06.05.22	7		H	\top	†		\forall	+			\top	+	+	†	†	\vdash			Н	+	+	+	1		+	+		H	+	+	-
7-11	Well M-21	06.06.22	06.12.22	7		\Box		T	\Box	\forall	+			\forall	+	+	t	$^{+}$	+				1	+	+	+			+		\vdash	+	+	-
7-12	Well D-28	06.06.22	06.12.22	7		\Box	+	†	\Box	\top	+			+	+	+	+	+	Н			Н	+	+	+	+			+	-	H	+	+	-
7-13	Well D-07	06.13.22	06.19.22	7			1	+			\top			+	+	+	+	t	t	-			+	+	+	+			+	-	\vdash	+	+	-
7-14	Well D-06	06.13.22	06.19.22	7			1	1			+			+	+	+	1	1	1				+	+	+	+	+		-	-	H	+	+	-
7-15	Well D-02	06.20.22	06.23.22	4	Γ	П		1		\top	+	П		\top	$^{+}$	+	+	T	1		\dashv	\vdash	+	+	+	+	+	+	接		\vdash	+	+	-
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Submitted By:

Chrong, in Coding Coding Coding Construction

Addendum No. 1

Groundwater Well Production Meter Replacement GWA Project No. W19-001-BND

BASIC BID Item Description Unit Est. **Unit Price Bid Price** No. Quantity Mobilization and Demobilization \$64.9at. - \$ 64.9at.00 (Maximum of 5% of the sum of Bid 1 LS 1 Price Items 2 thru 31) \$ 43.800,00 \$ 43.800,00 Well Y-15 2 LS 1 \$ 44.800.00 \$ 44.800.00 3 Well Y-07 LS 1 \$ 43,800,00 \$ 43,800,00 4 Well Y-20 LS 1 \$ 43,800.00 \$ 43,800.00 5 Well Y-19 LS 1 \$ 43.800.00 \$ 43, 800.00 6 Well AG-02A LS 1 \$ 43. 800,00 \$ 43. Kov. ov 7 Well Y-09 LS 1 \$ 43, Bov. vo \$ 43.800.00 8 Well HGC-2 LS \$ 44. Boo bo \$ 44. 800.00 Well F-15 9 LS \$ 49,800 ms 49,800 00 10 Well H-01 LS 1 \$ 44.200.00 \$ 44,200,00 Well Y-14 LS 11 1 39.500.00 \$ 39,500,00 \$ Well D-25 12 LS 1 44,200,00 13 Well D-27 LS 1 \$ 44.200.00 \$ 44,200.00 Well F-13 \$ 444.200, by \$ 14 LS 1 43,200,00 \$ 43.200,00 \$ 15 Well Y-21A LS 1 44, 200,00 Well M-18 \$ 44.200.00 \$_ 16 LS 1 43.200.W

Well Y-22

Well Y-23

17

18

41.500,00

1

1

\$ 43.200,W \$

\$ 41,500,00 \$

LS

LS

Addendum No. 1

19	Well Y-17	LS	1	\$ 44.500,00	\$ 44.500.00
20	Well D-01	LS	1	\$ 49.800.00	\$ 49.800.00
21	Well EX-05	LS	1	\$ 40, 800.00	\$ 40,800,00
22	Well Y-18	LS	1	\$ 43,600,00	\$ 43.600.00
23	Well AG-01	LS	1	\$ 39.800,60	\$ 39.800,00
24	Well Y-10	LS	1	\$ 40.500,00	\$ 40,500,00
25	Well D-26	LS	1	\$ 42.600.00	\$ 42,600.00
26	Well A-04	LS	1	\$ 49.400,00	\$ 49.400.00
27	Well F-17	LS	1	\$ 39,100,00	\$ 39,500,00
28	Well F-18	LS	1	\$ 39,500.W	\$ 39.500.00
29	Well A-13	LS	1	\$ 48.800.00	\$ 48,800,00
30	Well Y-12	LS	1	\$ 39. (00 00	\$ 39.500.00
31	Well A-10	LS	1	\$ 49, 800.00	\$ 49.800.00
		TOTAL BASE BID	\$ 1.379,405,00		

Groundwater Well Production Meter Replacement GWA Project No. W19-001-BND

ADDITIVE BID NO. 1

Item No.	Description	Unit	Est. Quantity	Unit Price	Bid Price
1	Mobilization and Demobilization (Maximum of 5% of the sum of Bid Price Items 2 thru 16)	LS	1	\$ 32.760.00	\$ 32,760,00
2	Well A-15	LS	1	\$ 48,800,00	\$ 48,800.00
3	Well F-16	LS	1	\$ 40,500.00	\$ 40,500.00
4	Well D-19	LS	1	\$ 47.800.00	\$ 47.800.00
5	Well M-23	LS	1	\$ 40.500.00	\$ 40,500,00
6	Well A-21	LS	1	\$ 42.200.00	\$ 42,200,00
7	Well EX-11	LS	1	\$ 42,200.00	\$ 42,200.00
8	Well A-08	LS	1	\$ 47.800.00	\$ 47,800.00
9	Well D-15	LS	1	\$ 42,200 W	\$ 42,200.00
10	Well F-19	LS	1	\$ 42,200,00	\$ 42, 200,00
11	Well F-20	LS	1	\$ 42,200,00	\$ 42,200,00
12	Well M-21	LS	1	\$ 40 TEON	\$ 40.500,00
13	Well D-28	LS	1	\$ 42,200,00	\$ 42,200.00
14	Well D-07	LS	1	\$ 40,50000	\$ 40,500,00
15	Well D-06	LS	1	\$ 47.800,00	\$ 47,800,00
16	Well D-02	LS	1	\$ 49, Roo, 00	\$ 47,800,00
			TOTAL AD	DITIVE BID NO. 1	\$ 687.960.00

	Groundwater W GWA		duction Me No. W19-00	The same of	nt
		ADDITIV	/E BID NO.	2	
Item No.	Description	Unit	Est. Quantity	Unit Price	Bid Price
1	Mobilization and Demobilization (Maximum of 5% of the sum of Bid Price Items 2 thru 16)	LS	1	\$ 33,265,00	\$ 33,265.00
2	Well M-02	LS	1	\$ 49.300,00	\$ 49,300.00
3	Well D-24	LS	1	\$ 43,200,00	\$ 43.200.00
4	Well M-03	LS	1	\$ 48.800.00	\$ 48,800,00
5	Well M-05	LS	1	\$ 40.500,00	\$ 40,500 00
6	Well M-07	LS	1	\$ 40,500,00	\$ 46 100,00
7	Well F-07	LS	1	\$ 43.20000	\$ 43,200,00
8	Well F-06	LS	1	\$ 43,200,00	\$ 43,200,00
9	Well F-08	LS	1	\$ 43.200.00	\$ 43,200,00
10	Well F-11	LS	1	\$ 43,200,00	\$ 43,200,00
11	Well A-14	LS	1	\$ 40,000,00	\$ 40,500,00
12	Well F-04	LS	1	\$ 40.500.00	\$ 40,500,00
13	Well F-02	LS	1	\$ 40,800,00	\$ 40.800.00
14	Well M-01	LS	1	\$ 48,800,00	\$ 48, Bov ov
15	Well X-XX	LS	1	\$ 49. 800,00	\$ 49.800.00
16	Well X-XX	LS	1	\$ 49.800,00	\$ 49,800,00
			TOTAL AD	DITIVE BID NO. 2	\$ 698, 565.00

Groundwater Well Production Meter Replaceme GWA Project No. W19-001-BND	int							
BID SUMMARY								
TOTAL BASIC BID AMOUNT	\$ 1,379,005.00							
TOTAL ADDITIVE BID NO. 1	\$ 687,960.00							
TOTAL ADDITIVE BID NO. 2	\$ 698,505.00							
GRAND TOTAL (BASIC BID + ADDITIVE BID 1 + ADDITIVE BID 2) TWO Millian Seven Hundred Sixty File Thousand Lyne Hundred Thirty Only (Price in Words)	\$ 2,765, 930.00							

(If the Total Base Bid is within the amount of funds available, then the award will be made to the responsive and responsible bidder submitting the lowest Base Bid Price. In the event the lowest responsive and responsible Bid exceeds the available budget, GWA may reject individual Bid Items until the Bid Amount fits within the available budget. If additional funding is obtained after the contract is executed, any or all deleted Bid items may be restored via Change Order.)



CONSOLIDATED COMMISSION ON UTILITIES

Guam Power Authority | Guam Waterworks Authority P.O. Box 2977 Hagatna, Guam 96932 | (671)649-3002 | guamccu.org

RESOLUTION NO. 04-FY2020

RELATIVE TO APPROVAL OF GROUNDWATER PRODUCTION METER REPLACEMENT PROJECT GWA PROJECT NO. W19-001-BND

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual, and policy matters relative to the Guam Waterworks Authority ("GWA"); and

WHEREAS, the Guam Waterworks Authority ("GWA") is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA operates approximately 100 groundwater production wells that range in production capacity from 50 to 755 gallons per minute and given GWA's efforts to better account for water system losses, the measured volume of the ground water production wells will play an important role in the water audit; and

WHEREAS, GWA is working to improve measurement the volume of groundwater that is produced from the wells through properly functioning flow meters to ensure under-or-over reported total production volumes are mitigated; and

WHEREAS, these deficiencies affect non-revenue water calculations, making it difficult to track distribution system losses; and

WHEREAS, replacement of production meters will require unobstructed, straight run, and full pipe for the length of three or more pipe diameters upstream of the meter and two or more diameters downstream to be accurate; and

WHEREAS, the condition of well head discharge piping at many well sites are also in poor condition due to excessive corrosion; and

WHEREAS, well head discharge piping needs to be standardized to reduce the number of meters, valves, fittings, and accessories to be stored resulting to cost savings; and

WHEREAS, in June 2017, GWA retained Brown and Caldwell (BC) to field test 60 existing wellhead flowmeters and to develop bid-ready plans and specifications to replace faulty flowmeters and to standardize well head discharge piping; and

WHEREAS, results of Brown and Caldwell (BC) meter tests using clamp on meter showed gpm values were generally less than the existing meter's gpm values, with some reading by 50 gpm or more; and

WHEREAS, GWA has advertised on August 2019 the Invitation For Bids (IFB-05-ENG-2019) for Groundwater Production Meter Replacement Project wherein GWA is soliciting bid proposals from experienced and responsive bidders for construction of the project; and

WHEREAS, this phase of work consists of furnishing all labor, tools, equipment and materials including coordination with GWA Water Production Operations and Engineering to construct all components described in the final design drawings and technical specifications which include but are not limited to replacement of water meter and above ground well discharge piping for 60 critical wells; and

WHEREAS, the bid schedule was divided into Basic Bid, Additive Bid No.1 and Additive Bid No.2 due availability of funds; and

WHEREAS, the bid schedule states if the total Basic Bid is within the amount of funds available, then award will be made to the responsive and responsible bidder submitting the lowest Basic Bid Price and in the event the lowest responsive and responsible Bid exceeds the available budget, GWA may reject individual Bid items until the Bid Amount fits within the

available budget, and if additional funding is obtained after the contract is executed, any or all deleted Bid items may be restored via Change Order; and

WHEREAS, IFB packages were picked up by seven (7) interested parties, from which GWA received bid proposal from one (1) of the seven (7) (SEE EXHIBIT A – Abstract of Bids) before the bid proposals deadline of September 27, 2019; and

WHEREAS, GWA Engineering analyzed the bid proposal received and determined that the bid package submitted by Giant Construction Corporation, the sole bidder, was responsive and responsible, and met all the bid requirements set forth by GWA (SEE EXHIBIT B – Bid Evaluation); and

WHEREAS, GWA Management finds Giant Construction Corporation Basic Bid Price acceptable and now seeks CCU approval of the bid proposal amount of One Million Three Hundred Seventy-Nine Thousand Four Hundred Five Dollars (\$1,379,405.00) attached hereto (SEE EXHIBIT C – Bid Proposal); and

WHEREAS, GWA Management further seeks CCU approval of a ten percent (10%) contingency to the Basic Bid proposal amount or One Hundred Thirty-Seven Thousand Nine Hundred Forty Dollars and Fifty Cents (\$137,940.50) to bring the total authorized funding amount to One Million Five Hundred Seventeen Thousand Three Hundred Forty-Five Dollars and Fifty Cents (\$1,517,345.50); and

WHEREAS, GWA Management further seeks CCU approval to petition the Public Utilities Commission approval of the contract given this project meets the Contract Review Protocol requirements for GWA projects for which the use of Bond funds is intended; and

WHEREAS, funding for this project will be from the CIP Line Item PW 05-07 Meter Replacement Program, IFCIP or any other CIP line item applicable to the project intent; and

NOW BE IT THEREFORE RESOLVED; the Consolidated Commission on Utilities does hereby approve the following:

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- 1. The recitals set forth above hereby constitute the findings of the CCU.
- The CCU finds that the terms of the conditions set by GWA relative to commencement of work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
- The CCU hereby authorizes the management of GWA to accept the bid proposal from "Giant Construction Corporation." attached hereto as Exhibit C and which is incorporated into this Resolution in its entirety.
- The CCU hereby further authorizes the management of GWA to enter into a contract with "Giant Construction Corporation" in the amount One Million Three Hundred Seventy-Nine Thousand Four Hundred Five Dollars (\$1,379,405.00).
- 5. The CCU hereby further approves the funding total of One Million Three Hundred Seventy-Nine Thousand Four Hundred Five Dollars (\$1,379,405.00) plus a ten percent (10%) contingency of One Hundred Thirty-Seven Thousand Nine Hundred Forty Dollars and Fifty Cents (\$137,940.50) for a total funding amount of One Million Five Hundred Seventeen Thousand Three Hundred Forty-Five Dollars and Fifty Cents (\$1,517,345.50).
- The CCU hereby further approves funding for this project to be from the CIP Line Item PW 05-07 "Meter Replacement Program", IFCIP or any other CIP line item applicable to the project intent

RESOLVED, that the Chairman certified and the Board Secretary attests to the adoption of this Resolution.

DULY AND REGULARLY ADOPTED, this 29th day of October 2019.

Certified by:

JOSEPH T. DUENAS

Chairperson

Attested by:

MICHAEL T. LIMTIACO

Secretary

SECRETARY'S CERTIFICATE

I, Michael T. Limtiaco, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

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GUAM WATERWORKS AUTHORITY

Gloria B. Nelson Public Service Building 688 Route 15, Mangilao, Guarn 96913

CHANGE ORDER NO. 1 **Project Title: GROUNDWATER PRODUCTION METER REPLACEMENT** Project No.: W19-001-BND IFB No. 05-ENG-2019 Contractor: GIANT CONSTRUCTION CORPORATION NTP Date: APRIL 29,2020 TO: GIANT CONSTRUCTION CORPORATION You are directed to make changes noted below in the subject contract. The changes are accepted by: PREPARED BY: tto Villarin cl Engineer, GWA REVIEWED BY: Barbara Cruz, P.E. Senior Engineer Supervisor, GW/ RECOMMEND Contractor Representative (SIGNAT/URE APPROVAL: Barbara Cruz, P.E. Date Acting Chief Engineer, GWA **NATURE OF CHANGES:** Changed water meter Output/Input option from 2x Pulse/Switch Output, 1x Status Input, to GSM, Antenna Remote + cable 2x Pulse/Switch Output, 1x Status input. This would allow wifeless communication with the meter in the absence of SCADA. (Additive -2. In coordination with Operations, some fittings were deleted without affecting the system's function. (Deductive - \$14,365.83) NET CHANGE IN COST (Additive - \$21,802.27). THE CHANGES RESULT IN THE FOLLOWING ADJUSTMENT OF CONTRACT PRICE: Contract price prior to this Change Order 1,379,405.00 Net INCREASE from this Change Order 21,802,27 Revised contract price after this Change Order 1,401,207.27 THE CHANGES RESULT IN THE FOLLOWING ADJUSTMENT OF CONTRACT TIME: Contract time prior to this Change Order, with breakdown given below. 365 Calendar Days Net INCREASE from this Change Order with breakdown given below (subject to approved terms and conditions) 0 Calendar Days Revised contract time after this Change Order 365 Calendar Days Revised Contract Expiration Date after this Change Order Thursday, April 29, 2021 **CERTIFIED FUNDS AVAILABLE:** Vendor No.: Contract No.: 832-OS **Funding Source:** 2016 BOND PW 05-07 & SDC 9/21/2020 G.L. NO .: W344.105321.420000 ¹/∤₩ĊTaling M. Taitano, CPA, CGFM Amount: \$21,802.27 Chief Financial Officer APPROVED:

Miguel C. Bordallo, P.E

General Manager, GWA

9.21.2020



Gloria B. Nelson Public Service Building 688 Route 15, Mangilao, Guam 96913

CHANGE ORDER NO. 2

Contractor: GIANT CONSTRUCTION CORPORATION NTP Date: APRIL 29,2020	Project Title:	GROUNDWATER PRODU	JCTION METER REPLACEM	IENT	
TO: GIANT CONSTRUCTION CORPORATION You are directed to make changes noted below in the subject contract. The changes are accepted by: PREPARED BY: PREPARED BY: Profect Engineer, GWA Profect Engineer, GWA Profect Engineer Supervisor, GWA Path Babara Gruz, P.E. Senior Engineer Supervisor, GWA Mauryn McDonald, P.E. Acting Chief Engineer, GWA Path Babara Gruz, P.E. Senior Engineer Supervisor, GWA Mauryn McDonald, P.E. Acting Chief Engineer, GWA NATURE OF CHANGES: 1. Extension of contract time due to the following: a. Delay in the approval of the submittal for the most critical item, the water meter. Water Engneering Section recommended adding GSM feature to the original meter specifications. Water meter submittal was approved and change order cost negotiated on September 3, 2020. Vivater meters were only ordered after the approval of change order on September 21, 2020. Contractor was able to assemble the discharge piping for pressure testing and disinfection after the arrival of water meters on February 4, 2021. Per Contractor's original schedule, project will be completed in 5.5 months. (185 days) after arrival of complete materials. b. This time extension will extend the contract time from April 29, 2021 to July 25, 2021. 2. NET CHANGE IN COST - There is no cost adjustment involved in this change order. THE CHANGES RESULT IN THE FOLLOWING ADJUSTMENT OF CONTRACT PRICE: Contract price prior to this Change Order Revised contract price after this Change Order Revised contract time after this Change Order Revised contract time after this Change Order Water Interpretation Date after this Change Orde	Project No.:	W19-001-BND	B No. 05-ENG-2019		
You are directed to make changes noted below in the subject contract. The changes are accepted by: PREPARED BY: PREPARED BY: Project Engineer, GWA Date REVIEWED BY: Barbara Gruz, P.E. Senior Engineer Supervisor, GWA Mauryn McDonald, P.E. Acting Chief Engineer, GWA Date NATURE OF CHANGES: 1. Extension of contract time due to the following: a. Delay in the approval of the submittal for the most critical item, the water meter. Water Engneering Section recommended adding SSM feature to the original meter specifications. Water meter submittal was approved and change order cost negotiated on September 3, 2020. Water meters were only ordered after the approval of change order on September 21, 2020. Contractor was able to assemble the discharge piping for pressure testing and disinfection after the arrival of water meters on February 4, 2021. Per Contractor's original schedule, project will be completed in 5.5 months. (165 days) after arrival of complete materials. b. This time extension will extend the contract time from April 29, 2021 to July 25, 2021. NET CHANGE IN COST - There is no cost adjustment involved in this change order. THE CHANGES RESULT IN THE FOLLOWING ADJUSTMENT OF CONTRACT PRICE: Contract price prior to this Change Order Not INCREASE from this Change Order with breakdown given below. Servised contract time after this Change Order with breakdown given below. Mature Time Time Time Time Time Tollowing Adjustment or Contract Time: Contract time prior to this Change Order with breakdown given below. Mature Time Time Time Time Time Time Tollowing Adjustment Time Time Time Time Time Time Time Time	Contractor:	GIANT CONSTRUCTION	CORPORATION		ITP Date: APRIL 29,2020
REVIEWED BY: RECOMMEND APPROVAL Mauryn McDonald, P.E. Acting Chief Engineer, GWA Author Cheef Engineer, GWA Date NATURE OF CHANGES: 1. Extension of contract time due to the following: a. Delay in the approval of the submittal for the most critical item, the water meter. Water Engineering Section recommended adding GSM feature to the original meter specifications. Water meter submittal was approved and change order cost negotiated on September 3, 2020. Water meters were only ordered after the approval of change order on September 21, 2020. Contractor was able to assemble the discharge piping for pressure testing and disinfection after the arrival of water meters on February 4, 2021. Per Contractor's original schedule, project will be completed in 5.5 months (165 days) after arrival of complete materials. b. This time extension will extend the contract time from April 29, 2021 to July 25, 2021. NET CHANGE IN COST - There is no cost adjustment involved in this change order. THE CHANGES RESULT IN THE FOLLOWING ADJUSTMENT OF CONTRACT PRICE: Contract price prior to this Change Order S. 1,401,207.27 THE CHANGES RESULT IN THE FOLLOWING ADJUSTMENT OF CONTRACT TIME: Contract time prior to this Change Order Whoth breakdown given below. Net INCREASE from this Change Order with breakdown given below. Net INCREASE from this Change Order with breakdown given below. Revised contract time after this Change Order Whonday, July 25, 2021 Taling M. Taitano, CPA, CGFM Date				changes are accepted by:	
RECOMMEND APPROVAL RESON AUTHOR APPROVAL RECOMMEND APPROVAL RECOMMEND APPROVAL RECOMMEND APPROVAL RECOMMEND APPROVAL REVISION AUTHOR APPROVAL REVISION APPROVAL REVISION AUTHOR AUTHOR APPROVAL REVISION AUTHOR AUTHOR APPROVAL REVISION AUTHOR	Contractor Repres	TH CHUL enlative (PRINT)	PREPARED BY	Ernesto Villarin	04/21/21 Date
1. Extension of contract time due to the following: a. Delay in the approval of the submittal for the most critical item, the water meter. Water Engineering Section recommended adding GSM feature to the original meter specifications. Water meter submittal was approved and change order cost negotiated on September 3, 2020. Water meters were only ordered after the approval of change order on September 21, 2020. Contractor was able to assemble the discharge piping for pressure testing and disinfection after the arrival of water meters on February 4, 2021. Per Contractor's original schedule, project will be completed in 5.5 months (165 days) after arrival of complete materials. b. This time extension will extend the contract time from April 29, 2021 to July 25, 2021. 2. NET CHANGE IN COST - There is no cost adjustment involved in this change order. THE CHANGES RESULT IN THE FOLLOWING ADJUSTMENT OF CONTRACT PRICE: Contract price prior to this Change Order \$ 1,401,207.27 THE CHANGES RESULT IN THE FOLLOWING ADJUSTMENT OF CONTRACT TIME: Contract time prior to this Change Order with breakdown given below. 10 September 20 September 3 September 20	Contractor Represe	Intative (SIGNATURE)	RECOMMEND	Bafbara Gruz, P.E. Senior Engineer Super Mauryn McDonald, P.	<u>4/27/2021</u> E. Date
a. Delay in the approval of the submittal for the most critical item, the water meter. Water Engneering Section recommended adding GSM feature to the original meter specifications. Water meter submittal was approved and change order cost negotiated on September 3, 2020. Water meters were only ordered after the approval of change order on September 21, 2020. Contractor was able to assemble the discharge piping for pressure testing and disinfection after the arrival of water meters on February 4, 2021. Per Contractor's original schedule, project will be completed in 5.5 months (165 days) after arrival of complete materials. b. This time extension will extend the contract time from April 29, 2021 to July 25, 2021. 2. NET CHANGE IN COST - There is no cost adjustment involved in this change order. THE CHANGES RESULT IN THE FOLLOWING ADJUSTMENT OF CONTRACT PRICE: Contract price prior to this Change Order \$ 1,401,207.27 Net INCREASE from this Change Order \$ 1,401,207.27 THE CHANGES RESULT IN THE FOLLOWING ADJUSTMENT OF CONTRACT TIME: Contract time prior to this Change Order, with breakdown given below. 365 Calendar Days Net INCREASE from this Change Order with breakdown given below (subject to approved terms and conditions). 87 165 Calendar Days Revised contract time after this Change Order With breakdown given below (subject to approved terms and conditions). 87 165 Calendar Days Revised Contract Expiration Date after this Change Order With breakdown given below (subject to approved terms and conditions). 87 165 Calendar Days Monday, July 25, 2021 CERTIFIED FUNDS AVAILABLE: Vendor No.: 18155 Contract No.: 832-OS Funding Source: 2016 BOND PW 05-07 & SDC G.L. NO.: W344.105321.420000 Talling M. Taitano, CPA, CGFM Date			na:		
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					OT WE Date

APPROVED:

Miguel C. Bordallo, P.E. General Manager, GWA

Date



GUAM WATERWORKS AUTHORITY Gloria B. Nelson Public Service Building 688 Route 15, Mangilao, Guam 96913

CHANGE ORDER NO. 3

Project Title:	GROUNDWATER PRO	DDUCTION ME	TER REPLACE!	MENT		
Project No.:	W19-001-BND	IFB No. <u>05</u>	-ENG-2019			
Contractor:	GIANT CONSTRUCTION	ON CORPORA	TION		NT	P Date: APRIL 29,2020
	NSTRUCTION CORPORA make changes noted be		ct contract. The	changes are acc	epted by:	
Contractor Repre	sentative (PRINT)	N, 2021	PREPARED B	Erne V	illarin gineer, GWA	06/15/21 Date
Contractor Repres	entative (SIGNATURE)	Date	REVIEWED BY RECOMMEND APPROVAL	Barbara C Senior Eng Mauryn Mo	ruz, P.E. ineer Superv	6/16/202 Date
the minimum above ground concrete the b. The last fitting be changed c. Additional p	ges: to flange distance (from we make length required for stan- nd discharge piping by ex rust block and backfill. Ac ng (45 degree bend) befor I to flange type which is the standard of the bypass	dardization. To cavating portion diditional cost = 3 ore entering the standard for a	meet the standa n of the exit pipe, \$26,662.16 inclu ground for deep above-ground fitt	ardization length, replace existing ding ltem b below well AG-02 is of a connections.	it is necessar diagonal pipe v.	ry to lengthen the e and fittings, install
2. Net Change in						
3. Contract Time	Extension - 93 calendar d	ays.				
	ESULT IN THE FOLLOW	ING ADJUSTN	ENT OF CONT	RACT PRICE:		
	r to this Change Order				\$	1,401,207.27
	rom this Change Order				\$	42,202.16
Revised contract p	rice after this Change Ord	der			\$	1,443,409.43
	ESULT IN THE FOLLOW			RACT TIME:		
	to this Change Order, wit	-			452	Calendar Days
	rom this Change Order w		elow (subject to approved	terms and conditions)"	93	Calendar Days
	me after this Change Ord				545	Calendar Days
Revised Contract I	Expiration Date after this (Change Order			··· Wednes	sday, October 27, 2021
CERTIFIED FUND						
Vendor No.:	18155					
Contract No.:	832-OS			mon	A	7/00/0004
Funding Source: _ G.L. NO.:	2013 BOND PW 05-07 W344.105321.420000		,			7/22/2021
Amount:	\$42,202.16		0	Taling M. Taita Chief Financial		Date Carl
- Amount		DDDOVED:		Oniei Filiancia	Onicei	<u> </u>

Miguel C. Bordallo, P.E. General Manager, GWA 7 · 22 · 202/ Date



GUAM WATERWORKS AUTHORITY
Gloria B. Nelson Public Service Building
688 Route 15, Mangilao, Guam 96913

CHANGE ORDER NO. 4

Project Title:	GROUNDWATER PRO	DUCTION	METER REPLACEME	ENT		
Project No.:	W19-001-BND	IFB No.	05-ENG-2019			
Contractor:	GIANT CONSTRUCTIO	N CORPC	RATION		N.	TP Date: APRIL 29,2020
TO: GIANT CO	NSTRUCTION CORPORA	TION				
You are directed	to make changes noted belo	ow in the su	ubject contract. The ch	hanges are accep	ted by:	
			DDED 1 DED DV			
Contractor Repr	esentative (PRINT)		PREPARED BY	: Ernesto Villa	rin	Date
				Project Engin		
				,		
			REVIEWED BY	: Barbara Cru	7 D E	Doto
				Senior Engine		Date visor GWA
			RECOMMEND		zo. Gupo.	
Contractor Repre	sentative (SIGNATURE)	Date	APPROVAL	:		
				Brett E. Ra Acting Chief I	Date	
NATURE OF OU				Acting Chief t	ingineer,	
1. Scope of Cha						
	/21, there were 3 deep wells	(AG-1, AC	G-02, and A-04) that re	main to be comp	eted The	Contractor work
progress v	vas hampered by operationa	al issues su	uch as non-functioning	isolation valve ar	nd/or low v	vater tank level. On
9/17/21, th	e Contractor was allowed to	work on A	AG-02 and completed i	t the following day	y. Howeve	er, the operational
issues for	deep wells AG-01 and A-04	continue.	To avoid further delay	in the completion	of the pro	oject, Engineering and
	s agreed to replace deep we					
b. Engineerin	04 was based on having san ig is working on a change or	ne size of v	well head and similar le	ength of the above	e-ground o	discharge piping.
	ct. This change order will re					
will extend	the contract completion dat	e to Janua	ry 14, 2022, to allow ti	mely execution of	the propo	sed change order
	contract period.					
2. Net Change in	Cost - \$0.00					
3. Contract Time	Extension - 79 calendar da	ys.				
THE CHANGES I	RESULT IN THE FOLLOWI	NG ADJUS	STMENT OF CONTRA	CT PRICE:		
	or to this Change Order				\$	1,443,409.43
	from this Change Order					1,110,100.10
	price after this Change Orde					1 442 400 42
					<u>Ф</u>	1,443,409.43
THE CHANGES I	RESULT IN THE FOLLOWI	NG ADJUS	STMENT OF CONTRA	CT TIME:		
Contract time prior	r to this Change Order, with	breakdow	n given below		545	Calendar Days
Net INCREASE	from this Change Order with	n breakdown giv	ren below (subject to approved ter	rms and conditions)"	79	Calendar Days
Revised contract	time after this Change Orde	r			624	Calendar Days
Revised Contract	Expiration Date after this Ch	nange Ord	er		Frida	ay, January 14, 2022
CERTIFIED FUNI	OS AVAILABLE:					
Vendor No.:	18155					
Contract No.:	832-OS					
Funding Source:	2013 BOND PW 05-07					
G.L. NO.:	W344.105321.420000			Taling M. Taitano	CPA. CC	GEM Date
Amount:	\$0.00			Chief Financial O		or in Bato
APPROVED AS 1	O FORM:			APPROVED:		
NOTED AO	J			ALLINOVED.		
			-			_
Theresa G. Rojas				Miguel C. Bordall		Date
Legal Counsel, G	WA			General Manager	GWA	

BEFORE THE PUBLIC UTILITIES COMMISSION

PETITION FOR APPROVAL OF)	GWA DOCKET
A GROUNDWATER PRODUCTION)	
METER REPLACEMENT PROJECT)	ORDER
WITH GIANT CONSTRUCTION)	
CORPORATION)	
)	

INTRODUCTION

This matter comes before the Guam Public Utilities Commission (the "PUC") pursuant to the December 27, 2019 Petition for Approval of a Groundwater Production Meter Replacement Project contract with Giant Construction Corporation ("Giant Construction"), GWA Project No. W19-001-BND (hereinafter referred to as the "Petition"), filed by the Guam Waterworks Authority ("GWA").

On January 27, 2020, the Administrative Law Judge of the PUC (the "ALJ") assigned to this matter filed an ALJ Report that included his findings and recommendations based on the administrative record before the PUC. The ALJ found the following.

DETERMINATIONS

According to GWA, back in June of 2017, GWA's consultant Brown and Caldwell performed field tests on sixty (60) well "head flow meters", and that based on these tests, Brown and Caldwell found that the meter readings were "inaccurate." Accordingly, GWA sought to develop and implement a Groundwater Production Meter Replacement Project "intended to replace" those "faulty groundwater production meters," which will also include replacement of "above-ground' discharge piping at various well

Petition, p. 2.

sites."² GWA submits that the condition of such piping at the well sites is in "poor condition due to excessive corrosion..."³

In August of 2019, GWA advertised Invitation for Bids (IFB-05-ENG-2019) for the Groundwater Production Meter Replacement Project, which sought bids related to the construction of the project.⁴ GWA received bids from only one contractor, Giant Construction.⁵ Thereafter, GWA evaluated the bids submitted by Giant Construction, and determined the bids to be satisfactory.⁶

Thereafter, the Consolidated Commission on Utilities (the "CCU") authorized GWA to accept Giant Construction's bid.⁷

A. GWA's Request for Approval of Award

GWA maintains that based on the 2017 field test on sixty (60) existing well head flowmeters, the existing meter readings were "shown to be inaccurate." GWA submits that "[t]hese meter reading inaccuracies are affecting non-revenue water calculations, making it difficult to track distribution system losses." And according to GWA, replacement of these production meters will also require "unobstructed, straight run,

Page 2 of 10

Petition, p. 1.

³ Consolidated Commission on Utilities Resolution No. 04-FY2020 (Oct. 29, 2019) ("Resolution"), p. 2.

⁴ Resolution, p. 2.

⁵ Resolution, p. 2.

⁶ Resolution, p. 2.

⁷ Resolution, p. 4.

⁸ Petition, p. 2.

Petition, p. 2.

and full pipes for the length of three or more pipe diameters upstream of the meter and two or more diameters downstream to be more accurate." ¹⁰

B. Contract Review Protocol

Pursuant to 12 G.C.A. §12105, GWA may not enter into any contractual agreements or obligations which could increase rates and charges without the PUC's express approval. Generally, pursuant to GWA's Contract Review Protocol issued in Administrative Docket 00-04, "[a]ll professional service procurements in excess of \$1,000,000" require "prior PUC approval under 12 G.C.A. §12004, which shall be obtained before the procurement process is begun "11

With respect to bond funded projects, GWA is required to obtain prior approval of these projects scheduled on "Exhibit A" to the Debt Order before any bond proceeds can be expended or committed on them. 12

C. Cost

In this instance, the CCU authorized GWA to enter into a contract with Giant Construction at a cost of \$1,379,405.00 for Giant Construction's Basic Bid. ¹³ The CCU also authorized an added ten percent (10%) contingency on the contract, increasing the total authorized contract cost to \$1,517,345.50. ¹⁴ GWA submits that funding for the

Petition, p. 2.

GWA's Contract Review Protocol ("Contract Protocol"), Administrative Docket 00-04, p. 1 (Oct. 27, 2005).

PUC Order (Approval \$161M Revenue Bonds), GWA Docket 15-10 (Dec. 10, 2015).

¹³ Resolution, p. 4.

¹⁴ Resolution, p. 4.

project will come from CIP Line Item PW 05-07 Meter Replacement Program, IFCIP, or any other CIP line item applicable to the project's intent.¹⁵

According to GWA's Summary Evaluation, it appears that the Basic Bid submitted by Giant Construction was half of GWA's estimate for the basic bid. Based on the Summary Evaluation, GWA estimated that the entire cost of the basic bid is about \$3.1 million for thirty (30) well sites. The Summary Evaluation further noted that Giant Construction had "satisfactorily completed several projects with GWA."

D. IFB IFB-05-ENG-2019 and Giant Construction's Bid

The project involves the replacement of well piping and meters at sixty (60) well sites at various locations. The "basic bid" includes thirty (30) wells; and two (2) "additive bids" include the other thirty (30) wells.

According to the Invitation for Bid, each item on bid includes "all labor, materials and equipment necessary to produce a complete and finished job." The project further includes mobilization and demobilization costs, which consists of labor, bond fees, permit fees, equipment and tools. 17

The work for the piping and meter replacement includes demolition of the existing production well piping, valves and supports; disposal of the old pipes and valves; disconnection of the chlorination system and electrical lines; supplying and installing the new piping, fittings, valves, gauges, instruments, and appurtenances; connections to the

Petition, p. 2.

¹⁶ Bid Form, p. 8.

¹⁷ Bid Form, p. 3.

existing piping and well heads; painting; and all other items required for a complete and operational system. 18

Giant Construction's bids for all labor and materials at thirty well sites indicated in the "Basic Bid" ranged from \$39,500 to \$49,800 per well site. Therefore, these costs include the furnishing and installation of new electromagnetic flow meters and pressure gauges, as specified in the IFB. Also included was a bid of \$64,905.00 for mobilization and demobilization.

The proposed contract between Giant Construction and GWA contains the usual contract provisions, and incorporates the scope of work indicated in the documents, which is generally described as: the replacement of groundwater well production meters and above-ground piping, and other well pump discharge equipment, at up to sixty (60) GWA well sites. ¹⁹ The work includes removal of the existing piping valves, flow meters and supports, and installation of new production meters, valves, gauges, and pipe supports, among others. ²⁰

The contract indicates that the project will be completed within 365 calendar days after the commencement date, with final payment due 425 calendar days after such commencement date.²¹

Also contained in the contract is a liquidated damages schedule, which allows for damages of \$1,000 per day beyond the date for substantial completion, or

¹⁸ Bid Form, p. 3.

Proposed Contract, p. 1.

²⁰ Proposed Contract, p. 1.

²¹ Proposed Contract, p. 1.

damages of \$1,000 per day for any corrections or remaining work needed after substantial completion of the project.²² The contract also contains a special damages provision, which requires the contractor to reimburse GWA for any fines or penalties resulting from contractor's failure to substantially complete the project within the time prescribed, or any costs GWA incurs for the contractor's refusal to finish the finish any remaining work after substantial completion of the project.²³

The contract indicates a total payment of \$1,379,405.00 to Giant Construction, but allows for the submission of progress payments. Further, the contract warrants that the contractor is familiar with the conditions at the sites, is aware of the general nature of the work, and is familiar with the laws and regulations that may impact the project.²⁴

E. Giant Construction

Giant Construction is a duly licensed contractor engaged in civil construction projects. Giant Construction's current projects include GWA projects, such as the GWA Line Replacement Phase 4, and the GWA Talofofo Sewer Improvement project. In addition, Giant Construction's Responsible Managing Employee and Vice President has over thirty (30) years and extensive experience in small and large-scale commercial and civil projects, which include work involving residential subdivisions, hotels, and GWA pipeline projects.

²² Proposed Contract, p. 2.

²³ Proposed Contract, p. 2.

²⁴ Proposed Contract, pp. 4-5.

F. Resolution No. 21-FY2019

The Petition is supported by CCU Resolution No. 04-FY2020 issued by the CCU at its October 29, 2019 meeting. In the Resolution, the CCU authorized GWA accept the Basic Bid submitted by Giant Construction.²⁵ In particular, the CCU authorized GWA to enter into a contract with Giant Construction at a cost of \$1,379,405.00.²⁶ The CCU also authorized an additional ten percent (10%) contingency on the contract amount, increasing the total authorized contract cost to \$1,517,345.50.²⁷

CONCLUSION AND RECOMMENDATION

The ALJ found, as noted in prior dockets, that the PUC has long recognized the need for GWA to continuously engage in efforts to replace old and aging infrastructure as one means to reduce water loss, which should reduce costs and improve system reliability.²⁸

The ALJ further found the continuation of such efforts are reasonable and necessary for the overall sustainability and operations of GWA's water system, and will eventually result in savings for GWA's ratepayers by reducing such water loss.

GWA submitted that it is working to improve its measurement of groundwater that is produced from the wells; and to accomplish this goal, GWA needs "properly functioning flow meters to ensure under-or-over reported total production

Resolution, p. 4.

Resolution, p. 4.

Resolution, p. 4.

See, e.g., PUC Order (approving GWA's Contract relative to Phase IV Line Replacement Project), GWA Docket 15-12 (Jan. 22, 2016).

volumes."²⁹ The ALJ therefore found that, with properly functioning flow meters, reporting of production values will be more accurate. Addressing the deficiencies caused by the malfunctioning meters will make it easier to track distribution system losses and improve non-revenue water calculations.

Based on the documentation provided by GWA in this docket, and for the other reasons set forth herein, the ALJ recommended that the PUC approve the contract between GWA and Giant Construction to complete the items indicated on the Basic Bid submitted by Giant Construction, at a cost of \$1,379,405.00. Further, the usual cost contingency indicated in GWA's Contract Review Protocol shall apply.

The Commission hereby adopts the findings made in the January 27, 2020 ALJ Report, and therefore, issues the following:

ORDERING PROVISIONS

Upon careful consideration of the record herein, and for good cause shown, on motion duly made, seconded and carried by the affirmative vote of the undersigned Commissioners, the Commission hereby ORDERS the following:

- 1. That the instant Petition is hereby APPROVED.
- GWA is authorized to enter into the proposed contract with Giant Construction Corporation, for a total cost of \$1,379,405.00, subject to the cost contingency provided under the Contract Review Protocol.
- 3. GWA is ordered to pay the PUC's regulatory fees and expenses, including and without limitation, consulting and counsel fees, and the fees and expenses

Resolution, p. 1.

associated with this matter. Assessment of the PUC's regulatory fees and expenses is authorized pursuant to 12 G.C.A. §§ 12103(b) and 12125(b), and Rule 40 of the Rules of Practice and Procedure before the PUC.

[SIGNATURES TO FOLLOW ON NEXT PAGE]

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EXHIBIT B-09

SO ORDERED this 30th day of January, 2020.

JEFFREY C. JOHNSON

Chairman

ROWENA P. PEREZ-CAMACHO

Commissioner

JOSEPH M. MCDONALD

Commissioner

MARK MILLER

Commissioner

MICHAEL A. PANGELINAN Commissioner

PETER MONTINOLA

Commissioner

DORIS FLORES BROOKS

Commissioner