

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.
- 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.

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

DULY AND REGULARLY ADOPTED, this 26th day of October 2021.

Certified by:

Attested by:

JOSEPH T. DUENAS

Chairperson

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:

AYES:

NAYS:

ABSENT:

ABSTAIN:

Ø



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

CHANGE ORDER NO. 5

Project Title:	GROUNDWATER PRO	DDUCTION N	METER REPLACEME	NT		
Project No.:	W19-001-BND	IFB No.	05-ENG-2019			
Contractor:	GIANT CONSTRUCTION	ON CORPOR	RATION		NTP Date	: APRIL 29,2020
TO: GIANT CONS	STRUCTION CORPORA	ATION				
You are directed to r	nake changes noted be	low in the sub	ject contract. The ch	nanges are accepte	ed by:	
	-				-	
Contractor Represe	entative (PRINT)		PREPARED BY	Ernesto Villar Project Engine		Date
			REVIEWED BY			
			RECOMMEND	Barbara Cruz	, P.E. er Supervisor, GV	Date WA
Contractor Represer	ntative (SIGNATURE)	Date	APPROVAL	: Brett E. Raile	 ey, P.E.	Date
				Acting Chief Er	ngineer, GWA	
NATURE OF CHAN	GES:					
Scope of Change						
prepared by Brov production wells. Additive Bid No. "in the event the until the bid amo deleted Bid items	Ill the 30 deep wells included and Caldwell was into Information of a function of the Information of Information of the Information of Info	ended to repl ling shortfall, dditive bid No responsible B ble budget. If nange order".	ace the above-groun the bid schedule was b. 2 for another 15 we tid exceeds the availa additional funding is	d discharge piping broken down to (1) bells. The bid sched able budget, GWA to obtained after the control of th	and meter for the 1) Basic Bid for 3 dule has a proviso may reject individual contract is execut	e 60 high 0 wells, (2) on that states dual Bid items ted, any and all
	under-or-over reported t					
2. Net Change in C	ost - \$741,744.65					
3. Contract Time Ex	ktension - 215 calendar	days from the	approval of the char	nge order.		
THE CHANGES RE	SULT IN THE FOLLOW	ING ADJUS	TMENT OF CONTRA	CT PRICE:		
	o this Change Order				\$	1,443,409.43
	m this Change Order				\$	741,744.65
	ce after this Change Ord	der			\$	2,185,154.08
	SULT IN THE FOLLOW		EMENT OF CONTRA	CT TIME.		
	this Change Order, wit			CI IIIVIE.	624 Calen	ndar Dave
•	m this Change Order $_{ m V}$		=		0.15	idar Days
			n below (subject to approved te	-	To be adjusted a	ter CO Approval
	e after this Change Ord	0.		-		
Revised Contract Ex	piration Date after this (Jnange Orde	r	···· ··· ··· ··· ··· ··· ··· ·	To be adjusted a	iter CO Approvai
Contract No.:	AVAILABLE: 18155 332-OS 2013 BOND PW 05-07 & N	MP-PW-MISC-	02			
G.L. NO.:	W344.105321.420000		•	Taling M. Taitano,	CPA, CGFM Da	ate
Amount:	\$741,744.65			Chief Financial Off	ficer	
APPROVED AS TO	FORM:			APPROVED:		
Thorong C. Baisa	Doto			Migual C. Bardalla		
Theresa G. Rojas Legal Counsel, GWA	Date \			Miguel C. Bordallo		ate
Legai Courisei, GW	٦			General Manager,	GVVA	



GIANT CONSTRUCTION CORP.

P.O. Box 9578 Tamuning, Guam 96931 Tel.: (671) 649-6472 • Fax.: (671) 646-3693

E-mail: giantconst@gmail.com

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
1. DI Spool & Fitting	\$51,227.32	\$82,745.12	\$31,517.80
2. Check valve & Butterfly valve etc.,	\$97,973.67	\$96,462.21	-\$1,511.46
HDG valve and Fitting	\$12,412.27	\$13,925.60	\$1,513.33
4. 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

Guam Waterworks Authority

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

		PRO	ECT TITLE:	- GROUNDW	ATER	WEI	LL P	ROD	UCT	ION	MET	ER	REP	LAC	EME	NT F	ROJ	IECT	1												
		9	EQUEN	CE OF CO	ONS	TRI	UC	TIC	N	AN	D١	NC	RI	(S	CHE	DU	JLE														
ITEMS	TASKS	START	END	DURATION		ec-21				1-22			Feb		T		r-22		Ap	r-22	2		May	/-22		Ju	un-22	2		ul-22	
			7.00	WORK DAYS	6 1	3 20	27	3	10 1	17 2	2 31	7	14	21	28 7	14	21	28	4 1	18	25	2	9 1	6 23	30	6 1	3 20	27	4 1	1 18	25
1	Submitaals/shop Drawing	12.06.21	12.20.21	16				Ш				Ш		Ш	\perp	\perp		\perp	_			Ц		\perp	Ш		\perp	\sqcup		\perp	
2	Permits	12.06.21	2.06.22	62											\perp			\Box				Ш					\perp	\sqcup			
3	Ordering of Materials	12.20.21	03.20.22	90																											
4	Meter Testing at GWA/MTF	03.21.22	04.03.21	13																		П						П			П
5	Assemble material for Pressure Testing	03.21.22	04.17.22	28				П							Т							П			П			П			
6	Pressure Test and Disinfection	04.04.22	5.01.22	27				П							Т							П	T	T	П		T	П			П
7	Field installation	10.11.21	12.27.21	77											T	Т			Т		П	П			П		T	П			П
7-1	Well A-15	05.02.22	05.08.22	6				П				П		T	T	1		П		T				T	П			П		\top	
7-2	Well F-16	05.02.22	05.08.22	6				П							T	T	П	\neg		Т				T	П		\top	П			П
7-3	Well D-19	05.09.22	05.15.22	7				П	T			П		T	T	1				Т				\top	П			П		\top	П
7-4	Well M-23	05.09.22	05.15.22	7			П	П		1		П			T	1	\Box	T				П			П		\top	П		\top	Г
7-5	Well A-21	05.16.22	05.22.22	7			П	П		T	T	П			┪		Ħ	寸				П			П		\top	П		\top	Г
7-6	Well EX-11	05.16.22	05.22.22	7				П				П			\top	\top	П	\exists		\top	T	П			П	\top	\top	П		\top	Г
7-7	Well A-08	05.23.22	05.29.22	7		1		П		1		П			\top			\neg				П			П	\neg	\top	П		\top	\Box
7-8	Well D-15	05.23.22	05.29.22	7		T					T	П			\top		П	\exists				П	\top	Ic	П		\top	П		\top	\Box
7-9	Well F-19	05.30.22	06.05.22	7								П			\top	\top		\neg		\top	T	П					\top	П		\top	Г
7-10	Well F-20	05.30.22	06.05.22	7			П	П				П			\top	T	П	\neg				П	\top	Т				\Box		\top	\Box
7-11	Well M-21	06.06.22	06.12.22	7								П			T			\neg				П	\top	Т		14		\Box		\top	П
7-12	Well D-28	06.06.22	06.12.22	7			П	П				П			\top			\neg				П		Τ				П	\top	\top	Г
7-13	Well D-07	06.13.22	06.19.22	7		T						П			\top	T	П	\neg	1	Т			T					П	\top	\top	П
7-14	Well D-06	06.13.22	06.19.22	7		T					T	П			\top	T			1	1					П			П	$\neg \vdash$	\top	П
7-15	Well D-02	06.20.22	06.23.22	4			П		1			П		\top	\top	T		\dashv	T	T		\Box	1		П		FO	\sqcap	T	\top	П
8	Fianl Clean up	06.24.22	07.04.22	10			П			1		П		\top	\top			7	_	T	\vdash	\vdash		\top	Н				23)	\top	

Submitted By:

Chung, In Chail
Giant Construction

Addendum No. 1

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

BASIC BID

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 31)	LS	1	\$ 64.9at	\$ 64.905.00
2	Well Y-15	LS	1	\$ 43.800.00	\$ 43.8m,vo
3	Well Y-07	LS	1	\$ <u>444. Buo</u> or	\$ 44.800.00
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	\$ <u>43.800.00</u>	\$ 43, 800.00
7	Well Y-09	LS	1	\$ 43.800 m	\$ 43.800.00
8	Well HGC-2	LS	1	\$ 43,800 m	\$ 43,800.00
9	Well F-15	LS	1	\$ 44 Boo bo	
10	Well H-01	LS	1	\$ 49,800 a	\$ 49,000,00
11	Well Y-14	LS	1	\$ 44.200.00	\$ 44,200,00
12	Well D-25	LS	1	\$ 39.500.00	\$ 39.500.00
13	Well D-27	LS	1	\$ 44.200.00	\$ 44,200.00
14	Well F-13	LS	1	\$ 244.200,00	\$ 44.200.00
15	Well Y-21A	LS	1	\$ <u>43.200,</u> w	\$ 43,200,00
16	Well M-18	LS	1	\$ 44,200,00	\$ 44, 200,00
17	Well Y-22	LS	1	\$ 43.200,W	\$ 43.200.W
18	Well Y-23	LS	1	\$ 41.500,00	\$ 41.500.00

Addendum No. 1

	<u>. </u>				
19	Well Y-17	LS	1	\$ <u>44.500</u> .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	\$ <u>39.800,</u> 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. sov. no
29	Well A-13	LS	1	\$ 48.810.00	\$ 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	\$ 40,5000	\$ 40,500,00
15	Well D-06	LS	1	\$ 47.800,00	\$ 47,800,00
16	Well D-02	LS	1	\$ 49,800,00	\$ 47.800,00
			TOTAL AD	DITIVE BID NO. 1	\$ 687.960.00

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

ADDITIVE 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	\$ <u>33,265</u> ,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 w	\$ 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	\$ <u>43,700,00</u>	\$ 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.m
14	Well M-01	LS	1	\$ 48,800,00	\$ 48, Bov ov
15	Well X-XX	LS	1	\$ 49. Boo. 10	\$ 49.800.00
16	Well X-XX	LS	1	\$ 49.800.00	\$ 49,800,00
			TOTAL AD	DITIVE BID NO. 2	5 698, 565.00

Groundwater Well Production Meter Replaceme GWA Project No. W19-001-BND	nt
BID SUMMARY	
TOTAL BASIC BID AMOUNT	\$ 1,379,005.00
TOTAL ADDITIVE BID NO. 1	\$ 687,960.00
TOTAL ADDITIVE BID NO. 2	\$ 698,585.00
GRAND TOTAL (BASIC BID + ADDITIVE BID 1 + ADDITIVE BID 2) Two Million Seven Hundred Sixty Filme Thousand Line Hundred Thirty Only (Price in Words)	\$ 2,765,730.00

(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 | guamecu.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.
- 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).
- 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.
- 4. 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).
- 6. 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: Attested by:

JOSEPH T. DUENAS MICHAEL T. LIMTIACO

Chairperson 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:

AYES:	5
NAYS:	
ABSTENTIONS:	
ABSENT:	$\overline{\mathcal{O}}$



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

CHANGE ORDER NO. _1_ **Project Title: GROUNDWATER PRODUCTION METER REPLACEMENT** Project No.: W19-001-BND IFB No. 05-ENG-2019 GIANT CONSTRUCTION CORPORATION Contractor: NTP Date: APRIL 29,2020 GIANT CONSTRUCTION CORPORATION You are directed to make changes noted below in the subject contract. The changes are accepted by: PREPARED BY: Engineer, GWA **REVIEWED BY:** Barbara Cruz, P.E. Date Senior Engineer Supervisor, GW/ RECOMMEND Contractor Representative (SIGNATURE 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 wireless communication with the meter in the absence of SCADA. (Additive -\$36,168.10) 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 365 Revised contract time after this Change Order Calendar Days Thursday, April 29, 2021 Revised Contract Expiration Date after this Change Order **CERTIFIED FUNDS AVAILABLE:** Vendor No.: 18155 Contract No.: 832-OS **Funding Source:** 9/21/2020 2016 BOND PW 05-07 & SDC W344.105321.420000 ¹₩∕Taling M. Taitano, CPA. G.L. NO.: Date Amount: \$21,802.27 **Chief Financial Officer**

APPROVED:

Miguel C. Bordallo, P.E/

General Manager, GWA

9.21.2020 Date



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

CHANGE ORDER NO. 2

Project Title:	GROUNDWATER PR	ODUCTION METE	R REPLACEME	ENT	
Project No.:	W19-001-BND	IFB No. 05-E	NG-2019		
Contractor:	GIANT CONSTRUCTI	ON CORPORATION	ON .	N ⁻	ΓP Date: <u>APRIL 29,2020</u>
You are directed to	ISTRUCTION CORPOR make changes noted be THICHUL sentative (PRINT)	low in the subject o	contract. The cl	Erriesto Villarin Project Engineer, GWA Barbara Cruz, P.E.	04/22/21 Date 04/22/202
Contractor Represe	entative (SIGNATURE)	Date 7	RECOMMEND APPROVAL	Senior Engineer Super Su	visor, GWA 4/27/2021 Date
NATURE OF CHA				Merconnec at	
	ntract time due to the fol			er meter. Water Engneerir	
order cost n September arrival of wa (165 days) a	egotiated on September 21, 2020. Contractor wa ater meters on February a after arrival of complete r	3, 2020. Water moss able to assemble to assemble to assemble to assemble to a serious attention attentions.	eters were only the discharge pactor's original s	Water meter submittal was ordered after the approval or piping for pressure testing a schedule, project will be con	of change order on nd disinfection after the
b. This time ex	tension will extend the c	ontract time from A	pril 29, 2021 to	July 25, 2021.	
2. NET CHANGE	IN COST - There is no c	ost adjustment invo	olved in this cha	nge order.	
Contract price prior Net INCREASE fr	ESULT IN THE FOLLOW r to this Change Order rom this Change Order rice after this Change Or		NT OF CONTRA	ACT PRICE: \$ \$	1,401,207.27 - 1,401,207.27
Contract time prior Net INCREASE fr Revised contract ti	to this Change Order, with this Change Order om this Change Order me after this Change Order Expiration Date after this	th breakdown give with breakdown given below der	n below (subject to approved te	ms and conditions 4 5 2 5 3 0 5 1 6 5 1 6 5 1 6 5 1 6 5 1 6 5 1 6 5 1 6 1 6	Calendar Days Calendar Days Calendar Days nday, July 25, 2021
CERTIFIED FUND	S AVAILABLE:				h
Vendor No.: _ Contract No.: _ Funding Source: _ G.L. NO.: _ Amount: _	18155 832-OS 2016 BOND PW 05-07 W344.105321.420000 \$0.00	& SDC	s	Taling M. Taitano, CPA, Co	GFM Date
		APPROVED:	-1		

Miguel C. Bordallo, P.E.

General Manager, GWA



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

CHANGE ORDER NO. 3

Project Title:	GROUNDWATER PRO	ODUCTION ME	TER REPLACEME	ENT	•	
Project No.:	W19-001-BND		-ENG-2019			,
Contractor:	GIANT CONSTRUCTI	ON CORPORA	TION		NT	P Date: APRIL 29,2020
	NSTRUCTION CORPORA o make changes noted be		ect contract. The c	hanges are accept	ed by:	
Contractor Repre	esentative (PRINT)	N, 2021	PREPARED BY	Ernesto Villa Project Engine		06/15/21 Date
Contractor Repres	sentative (SIGNATURE)	Date	REVIEWED BY RECOMMEND APPROVAL	Barbara Cruz Senior Engine	er Superv	\(\langle \
				Mauryn McDo Acting Chief E		
NATURE OF CHA	ANGES:					
concrete the b. The last fitted be change c. Additional	und discharge piping by exprust block and backfill. Acting (45 degree bend) beford to flange type which is the pipe support for the bypas	dditional cost = ore entering the ne standard for	\$26,662.16 includi ground for deep w above-ground fittin	ng <u>Item b</u> below. vell AG-02 is of me ag connections.		
	Cost - \$42,202.16.					
3. Contract Time	Extension - 93 calendar of	lays.				
Contract price price	RESULT IN THE FOLLOV or to this Change Order	VING ADJUSTN	MENT OF CONTRA	ACT PRICE:	\$	1,401,207.27
	from this Change Order price after this Change Or	 der			<u>\$</u>	42,202.16 1,443,409.43
	-					1,440,400.40
	RESULT IN THE FOLLOV r to this Change Order, wi			ACT TIME:	452	Calendar Days
	from this Change Order			erms and conditions)"	93	Calendar Days
	time after this Change Ord				545	Calendar Days
Revised Contract	Expiration Date after this	Change Order			vveanes	sday, October 27, 2021
Vendor No.: Contract No.: Funding Source:	18155 832-OS 2013 BOND PW 05-07		/-	Mond		7/22/2021
G.L. NO.: Amount:	\$42,202.16			Taling M. Taitano Chief Financial O	fficer	orivi Date
· · · · · · · · · · · · · · · · · · ·		APPROVED:	- 4/			

Miguel C. Bordallo, P.E.

General Manager, GWA



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

CHANGE ORDER NO. 4

Project Title:	GROUNDWATER PROD	DUCTION M	IETER REPLACEME	NT		
Project No.:	W19-001-BND	IFB No.	05-ENG-2019			
Contractor:	GIANT CONSTRUCTION	N CORPOR	ATION		NTP Dat	te: APRIL 29,2020
TO: GIANT CON	STRUCTION CORPORAT	TON				
You are directed to	make changes noted below	w in the sub	ject contract. The ch	anges are accept	ed by:	
Contractor Repres	ontativo (DDINT)		PREPARED BY	: Ernesto Villai	<u></u>	Data
Contractor Repres	entative (FRINT)			Project Engine		Date
			REVIEWED BY			
				Barbara Cruz	z, P.E. er Supervisor, G	Date
			RECOMMEND	Seriioi Erigirie	er Supervisor, C	7VV
Contractor Represe	ntative (SIGNATURE)	Date	APPROVAL	:	 -	
				Brett E. Rail Acting Chief E		Date
				Acting Chief L	ngineer, GWA	
1. Scope of Chang						
	I, there were 3 deep wells	(AG-1, AG-	02, and A-04) that re	main to be comple	eted. The Contr	actor work
progress was	s hampered by operational	l issues suc	h as non-functioning	isolation valve and	d/or low water ta	ank level. On
	Contractor was allowed to					
	ep wells AG-01 and A-04					
	greed to replace deep wel was based on having sam					
b. Engineering	is working on a change or	der that will	include the 15 deep	wells listed in Add	itive Bid No. 1 to	o the scope of
	This change order will red					
	e contract completion date	e to January	/ 14, 2022, to allow tir	mely execution of	the proposed ch	nange order
within the co	ntract period.					
2. Net Change in C	ost - \$0.00					
3. Contract Time E	xtension - 79 calendar day	/S.				
THE CHANGES RE	SULT IN THE FOLLOWIN	IG ADJUST	MENT OF CONTRA	CT PRICE:		
Contract price prior	to this Change Order				\$	1,443,409.43
					\$	-
	ice after this Change Orde	r			\$	1,443,409.43
THE CHANGES RE	SULT IN THE FOLLOWIN	IG ADJUST	MENT OF CONTRA	CT TIME:		
	o this Change Order, with				545 Cale	endar Days
	om this Change Order with		_	ms and conditions)"		endar Days
	ne after this Change Order					endar Days
	xpiration Date after this Ch					uary 14, 2022
	•	larige Order			T Huay, Jan	uary 14, 2022
CERTIFIED FUNDS						
	18155					
	832-OS					
	2013 BOND PW 05-07		-			
	W344.105321.420000			Taling M. Taitano,		Date
Amount:	\$0.00			Chief Financial Of	ficer	
APPROVED AS TO	FORM:			APPROVED:		
			-	M: 10.5 :::		
Theresa G. Rojas	Date .			Miguel C. Bordallo		Date
Legal Counsel, GW	A			General Manager,	, GWA	