GUAM CONSOLIDATED COMMISSION ON UTILITIES

RESOLUTION NO. 05-FY2017

RELATIVE TO APPROVAL OF CHANGE ORDER NO. 7 FOR THE DEEP WELL CHLORINE RESIDUAL ANALYZER PROJECT

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 currently has a number of critical Court Order ("CO") Projects, including the design, acquisition, installation, maintenance and operation of both continuous chlorine residual monitors and alarms and/or automatic shutoff systems when there is a loss of chlorine residual at all wells as stated in Paragraph 22 of the Court Order; and

WHEREAS, the initial improvements project to install chlorine residual analyzers at production wells identified as being high risk consisted of several different brands and configurations of chlorine residual analyzers intended to allow GWA to assess the reliability and maintainability of the various available alternatives; and

WHEREAS, data gather to date on this initial project revealed 16 well sites, including many of the high risk and moderate risk wells (i.e. the sites that were installed earliest, and with various brands and configurations), have chlorine residual analyzers that are non-functional and problematic for operation staff during maintenance/repair calls; and

WHEREAS, GWA is at high risk of non-compliance with the Groundwater Rule ("GWR"), and will be in non-compliance with the Court Order should well sites be operating without functional chlorine residual analyzers; and

WHEREAS, GWA issued IFB-06-ENG-2014 "Deep Well Chlorine Analyzer Project" to address holistically the chlorine residual analyzer requirement and electrical upgrades at all production wells which Asanuma Corporation was the lowest bidder and which Resolution No. 32-FY2014 (See EXHIBIT A – Resolution No. 32-FY2014) approved GWA to enter into contract with Asanuma to install chlorine residual analyzers and perform electrical improvements necessary for the safe and reliable function of the chlorine residual analyzers at a number of wells; and

WHEREAS, the intent of IFB-06-ENG-2014 was to address all well sites however at the time of the award of the current contract to Asanuma Corporation, portions of the scope identified in the bid schedule were not awarded due to funding limitations, including needed electrical improvements at 18 well sites; and

WHEREAS, in the course of the improvement works by Asanuma per the contract, 15 well sites involving VFDs installation/replacement revealed additional requirements are necessary for the operation of said VFD's, particularly improved cooling of the VFD and electrical equipment through the ventilation fans; and

WHEREAS, the additional bond funding acquired in 2016 now provides GWA the opportunely to complete all the improvements initially bid out as well as address additional requirements related to the project scope which includes the following:

1. Electrical improvements at 18 sites; and
2. Installation of roof ventilation at 15 sites; and
3. Replacement of defective Chlorine Residual Analyzers at 16 sites; and
4. Installation of VFD at well F-13; and

WHEREAS, GWA analyzed the change proposal received from Asanuma Corporation, and finds the change order proposal scope and fee amount of Eight Hundred Forty Thousand Dollars ($840,000.00) to be reasonable (See EXHIBIT B – Change Order Proposal); and

WHEREAS, GWA believes the completion of the remaining work not awarded in the initial contract with Asanuma will help GWA improve the operations and maintenance the of chlorine residual analyzers at all well sites; and

WHEREAS, GWA Management is seeking approval for additional funding of Eight Hundred Forty Thousand Dollars ($840,000.00), on top of the prior approved authorized funding amount of Two Million Nine Hundred Twenty Six Thousand One Hundred Twenty One Dollars ($2,926,121.00) to bring the total requested funding amount to Three Million Seven Hundred Sixty Six Thousand One Hundred Twenty One Dollars ($3,766,121.00) to execute change proposal #7 under the Deep Well Chlorine Residual Analyzer Project with Asanuma Corporation; and

WHEREAS, the funding source for the Change Order will be from CIP PW 09-02 "Water Wells"; and CIP EE 09-02 "Electrical Upgrade-Water Wells"; and

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities does hereby approve and authorize the following:

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The CCU finds that the terms of the change proposal submitted by Asanuma Corporation are fair and reasonable.
3. The CCU finds that the terms of the conditions set by GWA relative to commencement of subsequent work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
4. The CCU hereby authorizes the management of GWA to accept the change proposal from Asanuma Corporation attached hereto as EXHIBIT B, and which is also incorporated into this Resolution in its entirety.
5. The CCU hereby further authorizes the management to execute change proposal #7 with Asanuma Corporation, in the amount of Eight Hundred Forty Thousand Dollars ($840,000.00).

6. The CCU hereby further approves the total authorized funding amount to a maximum of Three Million Seven Hundred Sixty Six Thousand One Hundred Twenty One Dollars ($3,766,121.00).
7. The CCU hereby approves the use of funding from CIP PW 09-02 "Water Wells"; and CIP EE 09-02 "Electrical Upgrade-Water Wells".

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

DULY AND REGULARLY ADOPTED, this 25th day of October 2016.

Certified by:

JOSEPH T. DUENAS
Chairperson

Attested by:

J. GEORGE BAMBA
Secretary

I, Joseph T. Duenas, Board Secretary and Treasurer 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: 4

NAYS: 0

ABSTENTIONS: 0

ABSENT: 1

///

///

Exhibit A (1 of 4)

GUAM CONSOLIDATED COMMISSION ON UTILITIES

RESOLUTION NO. 32 - FY2014

RELATIVE TO APPROVAL OF THE DEEP WELL CHLORINE ANALYZER CONSTRUCTION CONTRACT

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 currently has a number of critical Court Order ("CO") Projects, including installation of Deep Well Chlorine Residual Analyzers at all remaining wells with no history of fecal contamination which is Item 22 (c) of the amended Stipulated Order and which must be completed by November 2014; and

WHEREAS, the Deep Well Chlorine Analyzer Project (Design) has been completed which included provisions to provide design services for eighty (80) well sites with the intent to improve electrical safety and reliability as well as installation of seventy-three (73) Chlorine Residual Analyzers at the various well sites; and

WHEREAS, the electrical improvements are necessary for the safe and reliable operation of the Chlorine Residual Analyzers to effectively monitor chlorine residual levels and to stop water production at the wells should the measurements exceed acceptable boundaries; and

WHEREAS, GWA has advertised an Invitation for Bid ("IFB") soliciting bid proposals from experienced and responsive bidders to provide construction services for the Deep Well Chlorine Analyzer project; and

Exhibit A (2 of 4)

WHEREAS, this phase of work consists of furnishing all labor, tools, equipment and materials necessary for the installation of chlorine residual analyzer units and electrical system upgrades under the provisions of the bid documents and in accordance with applicable GWA standards; and

WHEREAS, IFB packages were picked up by four (4) interested parties, from which GWA received bid proposals from two (2) of the four parties (See EXHIBIT A- Bid Summary) before the bid proposal deadline; and

WHEREAS, GWA Engineering Consultant and GWA Engineering Division project managers analyzed (See EXHIBIT B – Evaluation) the bid proposals received on August 15, 2014 and determined that Asanuma Corporation ("Asanuma"), who submitted the lowest combined bid as the responsive and responsible bidder and met all the bid requirements set forth by GWA; and

WHEREAS, Asanuma submitted the lowest combined bid of Two Million Nine Hundred Seventy Nine Thousand Dollars ($2,979,000.00); and

WHEREAS, the current CIP line items that are applicable to fund this project are limited thus GWA only accepts at this time the bid proposal of Two Million Six Hundred Sixty Thousand One Hundred Ten Dollars ($2,660,110.00) and rejects a portion of the bid in the amount of Three Hundred Eighteen Thousand Eight Hundred Ninety Dollars ($318,890.00) which is further elaborated hereto (see EXHIBIT C – Bid Proposal and Intent of Award); and

WHEREAS, GWA Management seeks CCU approval of the bid proposal amount of Two Million Six Hundred Sixty Thousand One Hundred Ten Dollars ($2,660,110.00) plus a ten percent (10%) contingency of Two Hundred Sixty Six Thousand and Eleven Dollars ($266,011.00) for a total funding amount of Two Million Nine Hundred Twenty Six Thousand One Hundred Twenty One Dollars ($2,926,121.00); and

WHEREAS, the source of funding for the construction project will be from the 2010 and 2013 Bond proceeds under CIP PW 05-11 "Implement Ground Water Rule"; the 2013 Bond CIP PW 09-02 "Water Wells"; and 2013 Bond CIP EE 09-02 "Electrical Upgrade-Water Wells"; and

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities does hereby approve and authorize the following:

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The CCU finds that the terms of the bid proposal submitted by "Asanuma Corporation" are fair and reasonable.
3. The CCU hereby authorizes the management of GWA to accept the bid proposal from "Asanuma Corporation" attached hereto as EXHIBIT C, and which is incorporated into this Resolution in its entirety.
4. The CCU hereby further authorizes the management to enter into a contract with "Asanuma Corporation", in the amount of Two Million Six Hundred Sixty Thousand One Hundred Ten Dollars ($2,660,110.00).
5. The CCU hereby further approves the funding of Two Million Six Hundred Sixty Thousand One Hundred Ten Dollars ($2,660,110.00) plus a ten percent (10%) contingency for a total funding amount of Two Million Nine Hundred Twenty Six Thousand One Hundred Twenty One Dollars ($2,926,121.00).

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

DULY AND REGULARLY ADOPTED, this 26th day of August 2014.

Certified by:

SIMON A. SANCHEZ, II
Chairperson

Attested by:

JOSEPH T. DUENAS
Secretary

Exhibit A (4 of 4)

SECRETARY'S CERTIFICATE

I, Joseph T. Duenas, 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: 0

ABSTENTIONS: 0

ABSENT: 0

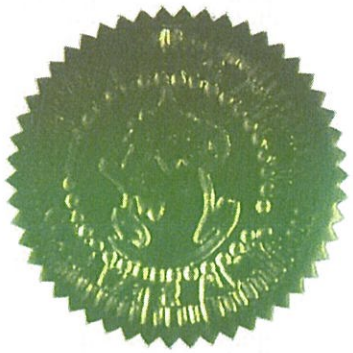

Exhibit B (1 of 15)

Asanuma Corporation

Guam Branch Office
P.O. Box 22108, GMF
Guam 96921
Tel : 671-646-4243/1071
Fax:671- 646-5180

October 10, 2016

Mr. Miguel C. Bordallo, PE, General Manager
Guam Waterworks Authority
Gloria Nelson Public Service Bldg.
Fadian, Mangilao, GUAM

ATTN: Mr. Delfyn Quitlong, Engineering Division

Subject: PW 05-11 DEEP WELL CHLORINE ANALYZER
GWA PROJECT NO. W13-002-BND

Re: Change Order #7 (construction period)

Dear Mr. Delfyn Quitlong,

We would like to propose the construction period to be 210 calendar days.

We will be very much appreciated if you consider the above mentioned matters.

Sincerely yours,
ASANUMA CORPORATION

Yasuhiro Oikawa
Project Manager

Asanuma

Exhibit B (2 of 15)

ASANUMA CORPORATION 10/10/16

PROJECT NAME: SUMMARY OF ELECTRICAL & MECHANICAL WORK (CO #7)

NO	Description	Qty	Unit	Unit Price	Total	Remarks
	SUMMARY – M & E					
	KINDEN ESTIMATE					
A	Group 4 Deep Well Improvement 18 Well Sites	1	lot		284,120.00	
B	Well Site with VFD, Install Ventillation Fan 15 Well Sites Electrical work Mechanical work	1	lot		185,200.00	
C	New Chlorine Residual Analyzer Installation 16 Well Sites Electrical work Mechanical work	1	lot		166,440.00	
D	New Deep Well Improvement 1 Site-F13	1	lot		16,228.00	
	KINDEN TOTAL				651,988.00	
	ASANUMA ESTIMATE					
A	Group 4 Deep Well Improvement	1	LOT		0.00	
B	DOOR HARDWARE $600 X 5 SITES =$3,000.00	1	LOT		3,000.00	
C	CIVIL WORK	1	LOT		19,200.00	
	EXCAVATION, FRENCH DRAIN, BEDDING SAND, BACK FILL $1,200 X 16 EACH = $19,200.00					
D	New Deep Well Improvement	1	LOT		0.00	
	ASANUMA TOTAL	1	LOT		22,200.00	
	DIRECT TOTAL	1	LOT		674,188.00	
	EXPENSES/ OVERHEAD				132,597.63	
	SUB-TOTAL				806,785.63	
	GRT			4.0%	33,600.20	
	TOTAL				840,385.83	
	TOTAL				840,385.83	
				SAY	840,000.00	

Exhibit B (3 of 15)

KINDEN CORPORATION
CLIENT NAME: Asanuma Corporation
PROJECT NAME: SUMMARY OF ELECTRICAL & MECHANICAL WORK

28-Jun-16

Item	Description	Qty	Unit	Unit Price	Total Price	Remarks
	GWA CHANGE ORDER #7 (MECHL. & ELECTL.)					
I	ELECTRICAL WORK					
A	Group 4 Deep Well Improvement	1	lot		284,120.00	see attached
	18 Well Sites					
B	Well Site with VFD, Install Ventillation Fan	1	lot		97,050.00	see attached
	15 Well Sites					
	Electrical work			97,050.00		
C	New Chlorine Residual Analyzer Installation	1	lot		17,632.00	see attached
	16 Well Sites					
	Electrical work			17,632.00		
D	New Deep Well Improvement	1	lot		16,228.00	see attached
	1 Site-F13					
	TOTAL-ELECTRICAL				415,030.00	
II	MECHANICAL WORK					
B	Well Site with VFD, Install Ventillation Fan	1	lot		88,150.00	see attached
	15 Well Sites					
	Mechanical work			88,150.00		
C	New Chlorine Residual Analyzer Installation	1	lot		148,808.00	see attached
	16 Well Sites					
	Mechanical work			148,808.00		
	TOTAL-MECHANICAL				236,958.00	
	GRAND TOTAL-MECHANICAL-ELECTRICAL				651,988.00	

Exhibit B (4 of 15)

KINDEN CORPORATION
CLIENT NAME: Asanuma Corporation
PROJECT NAME : GWA Deep Well Chlorine Analizer Change Order #7 (W13-002-BND)
Date: 28-Jun-16

Item	Description	Q'ty	Unit	Unit Price	Total Price	Remarks
A	Electrical Work					
A1	Table 5 : Deep Well Improvement					
	for 18 Total Wells-Change Order #7					
A2	General Requirement					
1	Mobilization/Demobilization	1	LS	4,000.00	4,000.00	
A3	Electrical					
1	Demolition	18	LS/WELL	200.00	3,600.00	
2	Conduits, Wiring, Boxes	18	LS/WELL	1,975.00	35,550.00	
3	Power Distribution	18	LS/WELL	4,225.00	76,050.00	
4	Motor Control System					
5	Constant Speed Starter for Well Pump	10	LS/WELL	8,714.20	87,142.00	
6	VFD for Well Pump	0	LS/WELL	0.00	0.00	
7	Constant Speed Starter for Booster Pump	18	LS/WELL	3,971.00	71,478.00	
8	Subtotal	1	LOT		277,820.00	
9	As-built Prep & Supervision	1	LOT		6,300.00	
	TOTAL				284,120.00	
	A8, A9, A13, A17, A18, A19, A21					
	M4, M6, M7, M8, M12, M5, M15, M17B, M18, M21, M23					

KINDEN CORPORATION
CLIENT NAME: Asanuma Corporation 29-Jun-16
PROJECT NAME: GWA-Deep Well Chlroine Analyzer-Change Order #7
(Ventillation Fan and Power-Mechl & Electl Work)

B.

DESCRIPTION	QTY	UNIT	LABOR & MATERIALS
1. Y-12			
a) Existing door install SSTL door handle with 24"x30" steel louver	1	ea	500.00
b) 34" x 72" install new steel metal door frame, door hardware stainless steel hinges 1-1/2 pairs and schlage lockset,(bet. Gen rm and elec. Rm.) paint to match existing (verify actual size)	1	ea	2,000.00
c) Install Centrifugal Exhaust fan roof mounted, 1/4" diameter SSTL wire rope tie down with SStl turn buckle. Thermostat switch	1	ea	3,918.00
d) Roof opening as per manufacturer recomendation with 4" x 6" concrete curb with #4 rebar dowel secure with epoxy, horizontal #4 rebar, restoration and dust prevention control	1	ea.	1,200.00
e) 3/4" aluminum conduit, boxes, wiring and accessories	1	Ls	$ 6,470.00
a. MDP Branch Breaker 20A, 3P, 480V b. Enclosed Motor Stater Combination D/S with timer and 2 N.O. & 1 N.C. aux contact c. Enclosed Push Button (Indoor) d. Enclosed Push Button (Outdoor) e. NFDS, N4X, 30A. With Unitsrut Channel Bracket SSTL			
Room dimension 87"x 86" x 109 Room temperature 86 degree			**14,088.00**
2. D-25			
a) Existing door install SSTL door handle with 24"x30" steel louver	1	ea	500.00
b) Install Centrifugal Exhaust fan roof mounted, 1/4" diameter SSTL wire rope tie down with SStl turn buckle. Thermostat switch	1	ea.	2,918.00
c) cover the 16" x 21" ac window with 1/4 " thick cement board, both side flush to wall concrete surface, paint to match existing	1	Ls	230.00
d) Roof opening as per manufacturer recomendation with 4" x 6" concrete curb with #4 rebar dowel secure with epoxy, horizontal #4 rebar, restoration and dust prevention control	1	ea.	1,200.00
e) 3/4" aluminum conduit, boxes, wiring and accessories	1	Ls	6,470.00
a. MDP Branch Breaker 20A, 3P, 480V b. Enclosed Motor Stater Combination D/S with timer and 2 N.O. & 1 N.C. aux contact c. Enclosed Push Button (Indoor) d. Enclosed Push Button (Outdoor) e. NFDS, N4X, 30A. With Unitsrut Channel Bracket SSTL			
Room dimension 108"x 92.. X110" Room temperature 89 degree			**11,318.00**

KINDEN CORPORATION
CLIENT NAME: Asanuma Corporation 29-Jun-16
PROJECT NAME: GWA-Deep Well Chlroine Analyzer-Change Order #7
(Ventillation Fan and Power-Mechl & Electl Work)
B.

DESCRIPTION	QTY	UNIT	LABOR & MATERIALS
3. D-28			
a) Existing door install SSTL door handle with 24"x30" steel louver	1	ea	500.00
b) Install Centrifugal Exhaust fan roof mounted, 1/4" diameter SSTL wire rope tie down with SStl turn buckle. Thermostat switch	1	ea	2,918.00
c) cover the 16" x 21" ac window with 3/8" cement board, both side flush to wall concrete surface, paint to match existing	1	ea	230.00
d) Roof opening as per manufacturer recomendation with 4" x 6" concrete curb with #4 rebar dowel secure with epoxy, horizontal #4 rebar, restoration and dust prevention control	1	ea.	1,200.00
e) 3/4" aluminum conduit, boxes, wiring and accessories	1	Ls	6,470.00
a. MDP Branch Breaker 20A, 3P, 480V b. Enclosed Motor Stater Combination D/S with timer and 2 N.O. & 1 N.C. aux contact c. Enclosed Push Button (Indoor) d. Enclosed Push Button (Outdoor) e. NFDS, N4X, 30A. With Unitsrut Channel Bracket SSTL			
Room dimension 108"x 92.. X110" Room temperature 88 degree			**11,318.00**
4. F-16			
a) Existing door install SSTL door handle with 24"x30" steel louver	1	ea	500.00
b) Install Centrifugal Exhaust fan rope mounted, 1/4" diameter SSTL wire roof tie down with SStl turn buckle. Thermostat switch	1	ea	2,918.00
c) Roof opening as per manufacturer recomendation with 4" x 6" concrete curb with #4 rebar dowel secure with epoxy, horizontal #4 rebar, restoration and dust prevention control	1	ea.	1,200.00
e) 3/4" aluminum conduit, boxes, wiring and accessories	1	Ls	6,470.00
a. MDP Branch Breaker 20A, 3P, 480V b. Enclosed Motor Stater Combination D/S with timer and 2 N.O. & 1 N.C. aux contact c. Enclosed Push Button (Indoor) d. Enclosed Push Button (Outdoor) e. NFDS, N4X, 30A. With Unitsrut Channel Bracket SSTL			
Room dimension 88"x92"x112" Room temperature 89 degree			**11,088.00**

KINDEN CORPORATION
CLIENT NAME: Asanuma Corporation 29-Jun-16
PROJECT NAME: GWA-Deep Well Chlroine Analyzer-Change Order #7
(Ventillation Fan and Power-Mechl & Electl Work)

B.

DESCRIPTION	QTY	UNIT	LABOR & MATERIALS
5. F-18			
a) Existing door install SSTL door handle with 24"x30" steel louver	1	ea	500.00
b) Install Centrifugal Exhaust fan roof mounted, 1/4" diameter SSTL wire rope tie down with SStl turn buckle. Thermostat switch	1	ea.	2,918.00
c) Roof opening as per manufacturer recomendation with 4" x 6" concrete curb with #4 rebar dowel secure with epoxy, horizontal #4 rebar, restoration and dust prevention control	1	ea.	1,200.00
d) 34" x 72" install new steel metal door frame, door hardware stainless steel hinges 1-1/2 pairs and schlage lockset,(bet. Gen rm and elec. Rm.) paint to match existing (verify actual size)	1	ea	2,000.00
e) 3/4" aluminum conduit, boxes, wiring and accessories	1	Ls	6,470.00
a. MDP Branch Breaker 20A, 3P, 480V b. Enclosed Motor Stater Combination D/S with timer and 2 N.O. & 1 N.C. aux contact c. Enclosed Push Button (Indoor) d. Enclosed Push Button (Outdoor) e. NFDS, N4X, 30A. With Unitsrut Channel Bracket SSTL			
Room dimension 96" x 87" x112"" Room temperature 89 degree			**13,088.00**
6. Y-14			
a) Existing door install SSTL door handle with 24"x30" steel louver	1	ea	500.00
b) Install Centrifugal Exhaust fan roof mounted, 1/4" diameter SSTL wire rope tie down with SStl turn buckle. Thermostat switch	1	ea.	3,918.00
c) Roof opening as per manufacturer recomendation with 4" x 6" concrete curb with #4 rebar dowel secure with epoxy, horizontal #4 rebar, restoration and dust prevention control	1	ea.	1,200.00
e) 3/4" aluminum conduit, boxes, wiring and accessories	1	Ls	$ 6,470.00
a. MDP Branch Breaker 20A, 3P, 480V b. Enclosed Motor Stater Combination D/S with timer and 2 N.O. & 1 N.C. aux contact c. Enclosed Push Button (Indoor) d. Enclosed Push Button (Outdoor) e. NFDS, N4X, 30A., SSTL unistrut channel 1-5/8" bracket support			
e) 32" x 85" install new metal door frame, door hardware stainless steel hinges 1-1/2 pairs and schlage lockset,(bet. Gen rm and elec. Rm.) paint to match existing (verify actual size)	1	ea	2,000.00
Room dimension 108 x 80" x112"" Room temperature 96 degree			**14,088.00**

KINDEN CORPORATION
CLIENT NAME: Asanuma Corporation 29-Jun-16
PROJECT NAME: GWA-Deep Well Chlroine Analyzer-Change Order #7
(Ventillation Fan and Power-Mechl & Electl Work)

B.

DESCRIPTION	QTY	UNIT	LABOR & MATERIALS
7. Y-16			
a) Existing door install SSTL door handle with 24"x30" steel louver	1	ea	500.00
b) Install Centrifugal Exhaust fan roof mounted, 1/4" diameter SSTL wire rope tie down with SStl turn buckle. Thermostat switch	1	ea.	3,918.00
c) Roof opening as per manufacturer recomendation with 4" x 6" concrete curb with #4 rebar dowel secure with epoxy, horizontal #4 rebar, restoration and dust prevention control	1	ea.	1,200.00
e) 3/4" aluminum conduit, boxes, wiring and accessories	1	Ls	6,470.00
a. MDP Branch Breaker 20A, 3P, 480V b. Enclosed Motor Stater Combination D/S with timer and 2 N.O. & 1 N.C. aux contact c. Enclosed Push Button (Indoor) d. Enclosed Push Button (Outdoor) e. NFDS, N4X, 30A. With Unitsrut Channel Bracket SSTL			
Room dimension 80" x110" x 112"' Room temperature 93 degree			**12,088.00**
8. Y-7			
a) Existing door install SSTL door handle with 24"x30" steel louver	1	ea	- NOT NEEDED
b) Roof opening as per manufacturer recomendation with 4" x 6" concrete curb with #4 rebar dowel secure with epoxy, horizontal #4 rebar, restoration and dust prevention control	1	ea.	1,200.00
c) Install Centrifugal Exhaust fan roof mounted, 1/4" diameter SSTL wire rope tie down with SStl turn buckle. Thermostat switch	1	ea.	3,918.00
d) 35" x 85" install new steel metal door frame, door hardware stainless steel hinges 1-1/2 pairs and schlage lockset,(bet. Gen rm and elec. Rm.) paint to match existing (verify actual size)	1	ea	2,000.00
e) 3/4" aluminum conduit, boxes, wiring and accessories	1	Ls	6,470.00
a. MDP Branch Breaker 20A, 3P, 480V b. Enclosed Motor Stater Combination D/S with timer and 2 N.O. & 1 N.C. aux contact c. Enclosed Push Button (Indoor) d. Enclosed Push Button (Outdoor) e. NFDS, N4X, 30A. With Unitsrut Channel Bracket SSTL			
Room dimension 80" x110" x 112"' Room temperature 93 degree			**13,588.00**

KINDEN CORPORATION
CLIENT NAME: Asanuma Corporation **29-Jun-16**
PROJECT NAME: GWA-Deep Well Chlroine Analyzer-Change Order #7
(Ventillation Fan and Power-Mechl & Electl Work)

B.

DESCRIPTION	QTY	UNIT	LABOR & MATERIALS
9. Y-21A			
a) Existing door install SSTL door handle with 24"x30" steel louver	1	ea	500.00
b) Install Centrifugal Exhaust fan roof mounted, 1/4" diameter SSTL wire rope tie down with SStl turn buckle. Thermostat switch	1	ea.	2,918.00
c) Roof opening as per manufacturer recomendation with 4" x 6" concrete curb with #4 rebar dowel secure with epoxy, horizontal #4 rebar, restoration and dust prevention control	1	ea.	1,200.00
e) 3/4" aluminum conduit, boxes, wiring and accessories	1	Ls	6,470.00
a. MDP Branch Breaker 20A, 3P, 480V b. Enclosed Motor Stater Combination D/S with timer and 2 N.O. & 1 N.C. aux contact c. Enclosed Push Button (Indoor) d. Enclosed Push Button (Outdoor) e. NFDS, N4X, 30A. With Unitsrut Channel Bracket SSTL			
Room dimension 80" x110" x 112"' Room temperature 93 degree			**11,088.00**
10. Y-18			
a) Existing door install SSTL door handle with 24"x30" steel louver	1	ea	500.00
b) Install Centrifugal Exhaust fan roof mounted, 1/4" diameter SSTL wire rope tie down with SStl turn buckle. Thermostat switch	1	ea.	3,918.00
c) Roof opening as per manufacturer recomendation with 4" x 6" concrete curb with #4 rebar dowel secure with epoxy, horizontal #4 rebar, restoration and dust prevention control	1	ea.	1,200.00
d) cover the 16" x 21" ac window with 1/4 " thick cement board, both side flush to wall concrete surface, paint to match existing	1	Ls	230.00
e) 3/4" aluminum conduit, boxes, wiring and accessories	1	Ls	6,470.00
a. MDP Branch Breaker 20A, 3P, 480V b. Enclosed Motor Stater Combination D/S with timer and 2 N.O. & 1 N.C. aux contact c. Enclosed Push Button (Indoor) d. Enclosed Push Button (Outdoor) e. NFDS, N4X, 30A. With Unitsrut Channel Bracket SSTL			
Room dimension 91" x 110"X110" Room temperature 99 degree			**12,318.00**

KINDEN CORPORATION
CLIENT NAME: Asanuma Corporation 29-Jun-16
PROJECT NAME: GWA-Deep Well Chlroine Analyzer-Change Order #7
(Ventillation Fan and Power-Mechl & Electl Work)

B.

DESCRIPTION	QTY	UNIT	LABOR & MATERIALS
11. Y-19			
a) Existing door install SSTL door handle with 24"x30" steel louver	1	ea	500.00
b) Install Centrifugal Exhaust fan roof mounted, 1/4" diameter SSTL wire rope tie down with SStl turn buckle. Thermostat switch	1	ea.	3,918.00
c) Roof opening as per manufacturer recomendation with 4" x 6" concrete curb with #4 rebar dowel secure with epoxy, horizontal #4 rebar, restoration and dust prevention control	1	ea.	1,200.00
d) cover the 16" x 21" ac window with 1/4 " thick cement board, both side flush to wall concrete surface, paint to match existing	1	Ls	230.00
e) 3/4" aluminum conduit, boxes, wiring and accessories	1	Ls	6,470.00
a. MDP Branch Breaker 20A, 3P, 480V b. Enclosed Motor Stater Combination D/S with timer and 2 N.O. & 1 N.C. aux contact c. Enclosed Push Button (Indoor) d. Enclosed Push Button (Outdoor) e. NFDS, N4X, 30A. With Unitsrut Channel Bracket SSTL			
Room dimension 91" x 110"X110" Room temperature 91 degree			**12,318.00**
12. Y-20			
a) Existing door install SSTL door handle with 24"x30" steel louver	1	ea	500.00
b) Install Centrifugal Exhaust fan roof mounted, 1/4" diameter SSTL wire rope tie down with SStl turn buckle. Thermostat switch	1	ea.	3,918.00
c) Roof opening as per manufacturer recomendation with 4" x 6" concrete curb with #4 rebar dowel secure with epoxy, horizontal #4 rebar, restoration and dust prevention control	1	ea.	1,200.00
d) cover the 16" x 21" ac window with 1/4 " thick cement board, both side flush to wall concrete surface, paint to match existing	1	Ls	230.00
e) 3/4" aluminum conduit, boxes, wiring and accessories	1	Ls	6,470.00
a. MDP Branch Breaker 20A, 3P, 480V b. Enclosed Motor Stater Combination D/S with timer and 2 N.O. & 1 N.C. aux contact c. Enclosed Push Button (Indoor) d. Enclosed Push Button (Outdoor) e. NFDS, N4X, 30A. With Unitsrut Channel Bracket SSTL			
Room dimension 91" x 110"X110" Room temperature 100 degree			**12,318.00**

KINDEN CORPORATION
CLIENT NAME: Asanuma Corporation 29-Jun-16
PROJECT NAME: GWA-Deep Well Chlroine Analyzer-Change Order #7
(Ventillation Fan and Power-Mechl & Electl Work)

B.

DESCRIPTION	QTY	UNIT	LABOR & MATERIALS
13. Y-22			
a) Existing door install SSTL door handle with 24"x30" steel louver	1	ea	500.00
b) Install Centrifugal Exhaust fan roof mounted, 1/4" diameter SSTL wire rope tie down with SStl turn buckle. Thermostat switch	1	ea.	2,918.00
c) Roof opening as per manufacturer recomendation with 4" x 6" concrete curb with #4 rebar dowel secure with epoxy, horizontal #4 rebar, restoration and dust prevention control	1	ea.	1,200.00
d) cover the 16" x 21" ac window with 1/4 " thick cement board, both side flush to wall concrete surface, paint to match existing	1	Ls	230.00
e) 3/4" aluminum conduit, boxes, wiring and accessories	1	Ls	6,470.00
a. MDP Branch Breaker 20A, 3P, 480V b. Enclosed Motor Stater Combination D/S with timer and 2 N.O. & 1 N.C. aux contact c. Enclosed Push Button (Indoor) d. Enclosed Push Button (Outdoor) e. NFDS, N4X, 30A. With Unitsrut Channel Bracket SSTL			
			11,318.00
Room dimension 91" x 110"X110" Room temperature 92 degree			
14. M-20A			
a) Existing door install SSTL door handle with 24"x30" steel louver	1	ea	500.00
b) Install Centrifugal Exhaust fan roof mounted, 1/4" diameter SSTL wire rope tie down with SStl turn buckle. Thermostat switch	1	ea.	3,918.00
c) Roof opening as per manufacturer recomendation with 4" x 6" concrete curb with #4 rebar dowel secure with epoxy, horizontal #4 rebar, restoration and dust prevention control	1	ea.	1,200.00
e) 3/4" aluminum conduit, boxes, wiring and accessories	1	Ls	6,470.00
a. MDP Branch Breaker 20A, 3P, 480V b. Enclosed Motor Stater Combination D/S with timer and 2 N.O. & 1 N.C. aux contact c. Enclosed Push Button (Indoor) d. Enclosed Push Button (Outdoor) e. NFDS, N4X, 30A. With Unitsrut Channel Bracket SSTL			
f) install new steel metal door frame, door hardware stainless steel hinges 1-1/2 pairs and schlage lockset,(bet. Gen rm and elec. Rm.) paint to match existing (verify actual size)	1	ea	2,000.00
			14,088.00

KINDEN CORPORATION
CLIENT NAME: Asanuma Corporation 29-Jun-16
PROJECT NAME: GWA-Deep Well Chlroine Analyzer-Change Order #7
(Ventillation Fan and Power-Mechl & Electl Work)

B.

DESCRIPTION	QTY	UNIT	LABOR & MATERIALS
15. F-13			
a) Existing door install SSTL door handle with 24"x30" steel louver	1	ea	500.00
b) Install Centrifugal Exhaust fan rope mounted, 1/4" diameter SSTL wire roof tie down with SStl turn buckle. Thermostat switch	1	ea	2,918.00
c) Roof opening as per manufacturer recomendation with 4" x 6" concrete curb with #4 rebar dowel secure with epoxy, horizontal #4 rebar, restoration and dust prevention control	1	ea.	1,200.00
e) 3/4" aluminum conduit, boxes, wiring and accessories	1	Ls	6,470.00
a. MDP Branch Breaker 20A, 3P, 480V b. Enclosed Motor Stater Combination D/S with timer and 2 N.O. & 1 N.C. aux contact c. Enclosed Push Button (Indoor) d. Enclosed Push Button (Outdoor) e. NFDS, N4X, 30A. With Unitsrut Channel Bracket SSTL			
			11,088.00
Room dimension 86"x92"x112" Room temperature 89 degree			
TOTAL			**185,200.00**

KINDEN CORPORATION
CLIENT NAME: Asanuma Corp.
PROJECT NAME: GWA Chlorine Analyzer-Change Order No. 7
C-ELECTL

Date: 28-Jun-16

Item	Description	Qty	Unit	Unit Price	Total Price	Remarks
C	**Chlorine Residual Analyzer-Electrical Work**					
c1	#12 awg solid and connectors	1	lot		200.00	
c2	#16X3 SJ Cord with Plug	1	lot		80.00	
c3	3/4" alum conduit and fitting	1	lot		502.00	
c4	FS Box 2x4 with cover	2	ea	25.00	50.00	
c5	Single Receptacle 15A, 120V w/ cover while in use-WP	1	ea		150.00	
c6	Supporting materials	1	lot		70.00	
c7	Miscellaneous materials	1	lot		50.00	
	TOTAL per Well Site				1,102.00	
	GRAND TOTAL	16	sites	1,102.00	17,632.00	
	A5, A6, A23, A25					
	D7, D19					
	F3, F20					
	M1, M5, M9, M20A					
	Y2, Y3, Y9, Y15					

Exhibit B (14 of 15)

KINDEN CORPORATION
CLIENT NAME: ASANUMA CORP.
PROJECT NAME : GWA Deepwell Chlorine Analyzer Change order #7 (16wells)
C-MECHL

Date: 28-Jun-16

Item	Description	QTY	UNIT	Unit Price	Total Price	Remarks
C	Chlorine Residual Analyzer-Mechl Work					
1	Bubble Trap	16	ea	588.00	9,408.00	
2	CL2 Analyzer CLF10sc	16	ea	6,228.00	99,648.00	
3	3/4" Tee PVC sch 80 ,slip	50	ea	4.41	220.50	
4	3/4" x90deg ell PVC sch80,slip	80	ea	2.29	183.20	
5	PVC bell reducer 3"x 1- 1/2"slip	32	ea	18.25	584.00	
6	Reducer Bushing 1-1/2" x 3/4" Pvc slip	32	ea	19.71	630.72	
7	3/4"dia x 45deg ell PVC sch 80	50	ea	4.41	220.50	
8	3/4"dia pvc pipes sch 80	10	ea	27.53	275.30	
9	1/4"dia x 2-1/2" wedgeanchor/50ea/box	3	box	49.41	148.23	
10	G.I Unitrut Channel 2"x2"x10ft	2	ea	47.05	94.10	
11	1/2"dia pipes cpvc sch80	45	ea	26.47	1,191.15	
12	1/2"dia x90deg ell cpvc sch80	130	ea	2.82	366.60	
13	1/2"dia x45deg ell cpvc sch80	32	ea	3.47	111.04	
14	1/2"dia coupling cpvc sch80 slip	32	ea	2.76	88.32	
15	Cpvc Tee x 3/4"x3/4"x1/2" slip	16	ea	17.05	272.80	
16	1/2"dia Ball valve bronze body threaded end	16	ea	12.65	202.40	
17	1/2"dia Needle Valve bronze threaded end	16	ea	128.00	2,048.00	
18	Plastic anchor with screw	2	box	58.82	117.64	
19	1/2" dia pvc male	16	ea	5.29	84.64	
20	Tube adaptor 1/2"NPTF to 3/8"dia O.D.Tube John Guest	65	ea	7.35	477.75	
21	Tube adaptor 1/4"NPTF to 3/8"dia O.D.Tube John Guest	35	ea	5.00	175.00	
22	3/4"NPT male 1/2"NPT female pvc fitting	50	ea	6.47	323.50	
23	3/8"dia O.D.Tubing x 200ft	1	roll	234.61	234.61	
24	Misc, Transport, Support	1	lot		700.00	
25	Freight Cost-Guam	1	lot		650.00	
26	Test & Commissioning	1	lot		4,000.00	
27	Labor Cost	16	ea	1,647.00	26,352.00	
	TOTAL				148,808.00	

Exhibit B (15 of 15)

KINDEN CORPORATION
CLIENT NAME: Asanuma Corporation
PROJECT NAME: Deep Well Improvement for F13 Retrofit Work (Booster Starter, VFD, CP-1)
Date: 28-Jun-16

Item	Description	Qty	Unit	Unit Price	Total Price	TOTAL
D	F-13					
a	Mobilization/Demobilization	1	lot	250.00	250.00	
b	Demolition	1	lot	200.00	200.00	
c	Wires, Conduit, Boxes					
	Wires & Connectors	1	lot	1,479.00	1,479.00	
	Conduit, Boxes & Fittings	1	lot	1,475.94	1,475.94	
	Ground Copper Bar with Lugs	1	ea	230.00	230.00	
	Ground Rod with Clamp 3/4"x10Ft	1	ea	340.00	340.00	
	Ground Test Well	1	ea	405.00	405.00	
d	Power Distribution					
	Switchboard/MDP (OFCI)	1	assy	1,208.62	1,208.62	Fr: D5
	Molded Case Breaker 150A, 3P, 600V	1	ea	470.00	470.00	
	Relocate Existing PLC to CP-1	1	ea	240.00	240.00	
	Circuit Breaker 20A-1P, 120V	1	ea	40.00	40.00	
	Duplex Receptacle 15A, 125V, WP-While-In-Use	1	ea	85.00	85.00	
e	Motor Control System					
	Deep Well -ABB-VFD-90KW-480V (OFCI)	1	assy	1,100.00	1,100.00	Fr: GWA WHSE
	ABB On-site tech-testing/commissioning	1	lot	5,012.00	5,012.00	
f	MCC-Booster Pump					
	Booster Pump Motor Starter-Constant Speed (OFCI)	1	assy	500.00	500.00	Fr: D5
g	Control Circuit Interlock/Interconnection					
	Termination at Booster, flow switch	1	lot	120.00	120.00	
	Termination at Deep Well, flow switch	1	lot	120.00	120.00	
	Termination at Chlorine Analyzer, no flow alarm	1	lot	125.56	125.56	
	Termination at Leak Sensor, alarm	1	lot	120.00	120.00	
h	Control Panel					
	CP-1 Panel 120V power supply (OFCI)	1	assy	922.22	922.22	Fr: D5
i	Removal D5 equipment					
	MDP Panel	1	assy	300.00	300.00	
	Booster Panel	1	assy	250.00	250.00	
	CP-1 Panel 120V power supply	1	assy	394.66	394.66	
j	As-built drawing & Supervision	1	lot	900.00	900.00	
	TOTAL				16,288.00	