



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

RESOLUTION NO. 25-FY2019

**RELATIVE TO APPROVAL OF CHANGE ORDER TO THE CONSTRUCTION
MANAGEMENT CONTRACT FOR THE BAZA GARDENS WASTEWATER CROSS-
ISLAND PUMPING AND CONVEYANCE SYSTEM (PHASES I, II&III)**

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 to include the Baza Gardens WWTP which has been recommended and approved to be converted to a sewer pumping station to transfer/convey wastewater flows from the Baza Gardens/Talofof wastewater basin across the Route 17 (Cross Island Road) to a new Agat-Santa Rita WWTP site; and

WHEREAS, in February 2016 GWA management entered into a contract with Duenas Camacho and Associates to design the wastewater conveyance and pumping system which includes new Sewer Pump Station (SPS), gravity mains, force mains and all incidentals and appurtenances to these main components; and

WHEREAS, GWA management further executed three separate construction contracts (Phases I, II&III) with Sumitomo Mitsui Construction Company (SMCC) and BME & Sons Incorporated (BME) to construct the new Conveyance System by April 16, 2018, per CCU Resolutions 01-FY2017, 13-FY2017 and 29-FY2017; and

1 **WHEREAS**, CCU further authorized via Resolution 02-FY2017 for GWA to execute a
2 contract with SSFM, Inc. (SSFM) to provide construction management services in the amount
3 not to exceed Two Million Eight Hundred Seventy-One Thousand Dollars (\$2,871,000.00); and
4

5 **WHEREAS**, GWA had subsequently executed the original contract with SSFM for an
6 amount of Two Million Two Hundred Eighty-Five Thousand Two Hundred Sixty-Eight Dollars
7 (\$2,285,268.00) as well as allotted Two Hundred Twenty-Eight Thousand Five Hundred
8 Twenty-Six Dollars and Eighty Cents (\$228,526.80) as a ten percent (10%) contingency to the
9 contract; and

10
11 **WHEREAS**, GWA further executed Change Order No. 1 in the amount of One Hundred
12 Eighty-Five Thousand Six Hundred Ninety-One Dollars (\$185,691.00) which was covered under
13 the original ten percent (10%) contingency; and

14
15 **WHEREAS**, CCU further authorized via Resolution 09-FY2019 in November 2018 an
16 increase of fund authorization in the amount of Three Hundred One Thousand Five Hundred
17 Sixty-Four Dollars and Fifty-Nine Cents (\$301,564.59) to bring the total authorized funding of
18 Three Million One Hundred Seventy-Two Thousand Five Hundred Sixty-Four Dollars and Fifty-
19 Nine Cents (\$3,172,564.59) to address continued Construction Management services past the
20 original construction period date; and

21
22 **WHEREAS**, GWA had executed Change Order No. 2 in the amount of Six Hundred
23 Two Thousand Seven Hundred Dollars and Fifty-Seven Cents (\$602,700.57) to bring the total
24 contract value to Three Million Seventy-Three Thousand Six Hundred Fifty-Nine Dollars and
25 Fifty-Seven Cents (\$3,073,659.57) which provided CM services up until April 30, 2019; and

26
27 **WHEREAS**, the overall construction project to date still has minor close out items for
28 the Phase I and II contractor as well as remaining refurbish work at the existing clarify, civil
29 works and SCADA for the Phase III contractor which still requires Construction Management
30 services thus GWA will be working to execute a Change Order to cover CM services with the
31 balance of the fund authorization which will only be until May 30, 2019; and
32

1 **WHEREAS**, the contractor for Phase III, SMCC, has submitted documentation to GWA
2 management (See Exhibit A) wherein they are stating the completion of construction activities is
3 now expected to extend through June 9, 2019 and are requesting approval for delay claims due to
4 inclement weather and removal and disposal of sludge at approximately 3,080 cubic yards that
5 were hauled and disposed to Layon Landfill which was outside of the bid; and
6

7 **WHEREAS**, notwithstanding the issues surrounding one of the contractor's delay and
8 when ultimately GWA approves additional time extension and as means of allowing for
9 continuity of construction management services as it relates to any construction extension due to
10 contractor issues, GWA management finds CM Services is likely necessary through July 2019 to
11 provide continued Construction Management Services; and
12

13 **WHEREAS**, GWA is negotiating with SSFM for a fee proposal to provide continued
14 construction management services to July 2019 on a Time and Materials basis and part of this
15 negotiation is for SSFM to take into account a reduction in staffing levels as the project reaches
16 the end of the construction period; and
17

18 **WHEREAS**, to ensure timely execution of any forthcoming Change Order so that
19 services are not stalled, GWA is seeking CCU approval of additional funding to a not to-exceed
20 amount of One Hundred Sixty Thousand Dollars (\$160,000.00) for the extended contract
21 performance period through July 2019; and
22

23 **WHEREAS**, funding for any Change Order to SSFM moving forward will be from any
24 available bond funds under the line item - WW 11-03 "Baza Gardens STP Replacement", and
25 Internally Funded CIP funds as well as Liquidated Damages of \$3,000 per day from the
26 contractor; and
27

28 **NOW BE IT THEREFORE RESOLVED**, the Consolidated Commission on Utilities
29 does hereby approve the following:
30

- 31 1. The recitals set forth above hereby constitute the findings of the CCU.
- 32

- 1 2. The CCU hereby approves the funding increase for construction management
2 services an additional amount not to exceed One Hundred Sixty Thousand
3 Dollars (\$160,000.00).
4 3. The CCU further approves the total funding authorization for the contract with
5 SSFM to an amount not to exceed Three Million Three Hundred Thirty-Two
6 Thousand Five Hundred Sixty-Four Dollars and Fifty-Nine Cents
7 (\$3,332,564.59).
8 4. The source of funding for any Change Order to SSFM moving forward will be
9 from any available bond funds under the line item - WW 11-03 "Baza
10 Gardens STP Replacement", and Internally Funded CIP funds as well as
11 Liquidated Damages of \$3,000 per day from the contractor (Exhibit A).
12

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

15
16 **DULY AND REGULARLY ADOPTED**, this 28th day of May 2019.

17
18 Certified by:

19 

20 **JOSEPH T. DUENAS**
21 Chairperson

22 Attested by:

23 

24 **MICHAEL T. LIMTIACO**
25 Secretary

26 //

27 //

28 //

29 //
30
31
32

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: 0

ABSTENTIONS: 0

ABSENT: 0



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EXHIBIT A



SUMITOMO MITSUI CONSTRUCTION CO.,LTD.

Guam Office : P. O. Box 9670 Tamuning, Guam 96931

April 17, 2019

Reference : LT-19-21

Mr. John Davis / Project Manager
Guam Waterworks Authority
Gloria B. Nelson Public Service Building
688 Route 15, Mangilao Guam 96913

Project : IFB-05-ENG-2017
Baza Gardens Wastewater Cross-Island Pumping and Conveyance System Phase III
GWA Project No. S15-008-BND

Subject : Request for Time Extension and to Not Assess Liquidated Damages

Dear Mr. Davis,

Thank you for sending a memo acknowledging portions of the project that are substantially complete as of December 31, 2018 and April 1, 2019, respectively.

We would like to request GWA not to impose Liquidated Damage from April 1st 2019, due to the reasons indicated below.

[Time Extension Request of 69days]

- **42 days of extension due to the difference of Bid Quantity of Sludge removal.**
Regarding sludge removal and disposal, while the anticipated quantity per contract was 30 cy, the actual quantity is expected to be more than 2500 cy. Based on actual 10 days hauling to GWA's drying bed recorded from March 13–29, 2019 to haul 2000 cy, to complete the remaining quantity of 500 cy to be hauled to Inarajan Landfill, we estimated a total extra time of 42 days for this increased scope of work. Please see attachment #1

- **27 additional unworkable days comparing to project specification.**
We lost unexpected working days due to unusually severe weather encountered for the months of August and September 2018. Rainy days exceeded 27 days compared to the average number of non-working days as indicated in the project specs Section 013216 Paragraph 2.2E. Please see attachment #2 and #3.

[Status and Remaining Value of the Project]

Please also note that the facility is operational and was already functioning for its intended purpose as of April 1st, 2019. The remaining works you mentioned in your memo are correct. However, the total value of the remaining works, such as EQ Basin, building demolition, and miscellaneous site works are only about 6.9% of our total contract amount. Assessing the full daily rate of liquidated delay damages when the facility is operational seems inappropriate to us. Please see attachment #4.

SMCC will continue to use our best efforts to complete the remaining scope of work as early as possible until we obtain GWA and SSFM's full satisfaction.

SMCC therefore request time extension for the reasons set forth above. SMCC also request GWA's consideration to reduce the daily rate of Liquidated damage based on the completion and use situation described above if GWA still feels it necessary to impose Liquidated damages.

Sincerely yours,



Takeyuki Shiino
General Manager

CC: Rizaldy B. Cortez/SSFM
SMCC file with attachments

Attachment #1: Record of Sludge removal and disposal
Attachment #2: Daily record weather and site condition
Attachment #3: Unworkable days specified in Bid documents.
Attachment #4: Schedule value of remaining scope of works

ATTACHMENT # 1

Summary:

A) Estimated extra time based on the bid and the actual quantity

1) Average production per day based on the tabulated 10days hauling record (March 13 ~ 29, 2019)

$$= 2072.115\text{cy} / 10\text{days}$$

$$= 207.21\text{cy}/\text{day}$$

$$\text{or } 25.90\text{cy}/\text{hour}$$

2) Total hours to haul bid quantity of 30cy

$$= 30\text{cy} / 25.90\text{cy}/\text{hour}$$

$$= 1.16 \text{ hours, say } 1/2 \text{ day}$$

3) Remaining 500cy to be mixed with soil (1:1 ratio) and haul/dispose to Inarajan Landfill

$$= 500 \times 2$$

$$= 1000\text{cy}$$

4) Hauling time with estimated 4 dump truck loads production per day per dump truck

$$= 1000\text{cy} / 15\text{cy}/\text{dump truck load} / 4\text{loads}/\text{day}$$

$$= 16.67\text{days (For one dump truck)}$$

$$= 8.34\text{days (Using two dump trucks)}$$

5) Total extra hauling and disposal time

$$= 10 + 8.34 - 0.5$$

$$= 17.84, \text{ say } 18\text{days}$$

B) 2days extra time for hauling suspension due to complain of the residence nearby the disposal site

C) 3days extra time for waiting for the availability of the Detry Vacuum truck after hauling suspension

D) 14days extra time for preparation and arrangement of new disposal site (Inarajan Landfill)

E) 5days extra time for Sundays covered within the hauling time

NOTE :

$$\text{Total extra time : } (18 + 2 + 3 + 14 + 5) = 42\text{days}$$

ATTACHMENT # 1

Project : Baza Gardens Wastewater Cross-Island Pumping and Conveyance System Phase III									
Activity : Tabulated Sludge Removal and Disposal									
Vacuum Truck = 3000 gallons/Truck load									
No.	Days	Date	Number of trucks	Time		Number of loads	Removed volume		Remarks
							Unit (gal)	Unit (cy)	
1	Wed	3/13	3	8:35	~ 16:50	19	57000	282.2	Sludge hauling to Inarajan drying bed started
2	Thu	3/14	3	8:40	~ 16:40	18	54000	267.4	Continue sludge hauling
3	Fri	3/15	3	7:40	~ 16:40	16	48000	237.7	"
4	Sat	3/16	2	8:05	~ 17:02	12	36000	178.2	"
5	Sun	3/17							Sunday (No work)
6	Mon	3/18	3	8:05	~ 16:40	16	48000	237.7	Continue sludge hauling
7	Tue	3/19	4	7:55	~ 16:40	10	30000	148.5	"
8	Wed	3/20	3	8:00	~ 15:30	13	39000	193.1	"
9	Thu	3/21	3	7:45	~ 14:00	12	36000	178.2	"
10	Fri	3/22							Hauling suspended due to Inarajan residence complain (EPA to inspect the issue)
11	Sat	3/23							"
12	Sun	3/24							Sunday (No work)
13	Mon	3/25							Residence complain resolved (GWA cleared issue with EPA) Detry not available to resume the hauling
14	Tue	3/26							Residence complain resolved (GWA cleared issue with EPA) Detry not available to resume the hauling
15	Wed	3/27							Residence complain resolved (GWA cleared issue with EPA) Detry not available to resume the hauling
16	Thu	3/28	4	8:15	~ 17:20	12	36000	178.2	Resumed sludge hauling
17	Fri	3/29	4	8:40	~ 17:30	10	30000	148.5	Resumed sludge hauling
18	Sat	3/30							Stopped hauling, drying bed full
19	Sun	3/31							Sunday (No work)
20	Mon	4/1							Communicating with GWA & GSWA for hauling sludge to Inaran Landfill
21	Tue	4/2							Communicating with GWA & GSWA for hauling sludge to Inaran Landfill
22	Wed	4/3	1	8:30	~ 17:00	-			Remove only water in preparation for mixing soil
23	Thu	4/4							Communicating with GWA & GSWA for hauling sludge to Inaran Landfill
24	Fri	4/5							Communicating with GWA & GSWA for hauling sludge to Inaran Landfill
25	Sat	4/6	1	13:00	~ 17:00	-			Transfer sludge from small to big chamber in preparation for mixing soil
26	Sun	4/7							Sunday (No work)
27	Mon	4/8	1	8:30	~ 17:00	-			Transfer sludge from small to big chamber in preparation for mixing soil
28	Tue	4/9	1	9:00	~ 17:00	-			Transfer sludge from small to big chamber in preparation for mixing soil
29	Wed	4/10							Continue communicating with GWA & GSWA for hauling remaining sludge to Inaran Landfill
30	Thu	4/11							"
31	Fri	4/12							GWA communicating with GSWA for hauling remaining sludge to Inaran Landfill
32	Sat	4/13							"
33	Sun	4/14							Sunday (No work)
34	Mon	4/15							Preparation of documents needed for hauling remaining sludge to Inaran Landfill
35	Tue	4/16							Preparation of documents needed for hauling remaining sludge to Inaran Landfill
Total							414000	2049.8	

Project : Baza Gardens Wastewater Cross-Island Pumping and Conveyance System, Phase III					
SUMMARY OF SMCC's SUBMITTED DAILY PRODUCTION REPORT					
BGWW3-DPR No.	Category	Date	AM Weather	PM Weather	Remarks
400	2	1-Aug	Rainy	Rainy	No Major activities due to rain & very wet site condition
401	1	2-Aug	Heavy Rain	Heavy Rain	Work suspended, heavy downpour from 8:30 all throughout the day.
402	1	3-Aug	Heavy Rain	Heavy Rain	Work suspended due to heavy rain.
403	1	4-Aug	Heavy Rain	Heavy Rain	Work suspended due to heavy rain.
404		5-Aug	Cloudy/Rainy		Sunday
405	2	6-Aug	Cloudy	Cloudy/Rainy	No major activities due to wet site condition, heavy rain from 7:00 to 7:21 am and in the afternoon.
406	2	7-Aug	Cloudy	Fair	No major activities due to very wet site condition.
408	2	9-Aug	Fair/Cloudy	Heavy Rain	No major activities due to very wet site condition.
409	2	10-Aug	Cloudy/Fair	Cloudy/Rainy	Less production due to wet site condition.
410	2	11-Aug	Cloudy/Rainy	Cloudy/Rainy	Heavy rain at 11:30 less production due to very wet site condition.
412	2	13-Aug	Cloudy/Rainy	Cloudy	No major activities due to very wet site condition and heavy rain.
413	2	14-Aug	Rainy/Cloudy	Cloudy/Rainy	Less production due to very wet site condition & rain. Heavy rain at
414	2	15-Aug	Rainy	Cloudy	No major activities due to very wet site condition. Rain at 10:45am.
415	1	16-Aug	Rainy	Rainy	Work suspended due to very wet site condition and heavy rain.
416	2	17-Aug	Rainy	Rainy	No major activities due to rain and wet site condition.
417	2	18-Aug	Rainy	Rainy	No major activities due to heavy rain.
418	2	19-Aug	Rainy	Heavy Rain	Less production due to heavy rain.
419	1	20-Aug	Heavy Rain	Heavy Rain	Work suspended due to heavy rain.
					NWS has issued a flash flood advisory for Guam due to heavy rainfall. Tropical storm Comaron intensifies on Northern Marianas.
420	1	21-Aug	Heavy Rain	Heavy Rain	Work suspended due to heavy rainfall. NWS issues a flash flood warning. The governor declares a state of emergency for Guam at 4:00pm.
421	2	22-Aug	Fair	Fair	Less production due to very wet site condition
422	2	23-Aug	Fair	Fair	Less production due to very wet site condition & rain
423	2	24-Aug	Moderate to Heavy Rain	Fair/Rainy	Less production due to very wet site condition.
425	2	26-Aug	Rainy	Cloudy/Rainy	Less production due to rain and very wet site condition.
426	2	27-Aug	Moderate to Heavy Rain	Rainy/Fair	Less production due to heavy rain and very wet site condition. Other activities were shut down.
					Concrete pouring was postponed at first due to bad weather condition but pushed through at 3pm when it stopped raining.
430	2	31-Aug	Fair	Rainy	Less production due to very wet site condition (Heavy Rain at 1:30 pm).
431	1	1-Sep	Rainy	Rainy	Work suspended due to heavy rain.
432	2	2-Sep	Rainy	Fair	Less production due to wet site condition
434	2	4-Sep	Fair	Rainy/Fair	Heavy rain at 1:15 PM. Production affected due to very wet site condition.
436	2	6-Sep	Fair	Rainy	Less production due to wet site condition & isolated rainshowers in the afternoon.
438	1	8-Sep	Rainy	Rainy	Less production due to wet site condition. Securing site in preparation for typhoon Mangkhut.
439	1	9-Sep	Rainy	Cloudy	Work suspended, no production. Workers are securing the jobsite for incoming Typhoon Mangkhut.
440	1	10-Sep	Rainy	Stormy	No work due to Typhoon Mangkhut.
441	1	11-Sep	Stormy	Rainy	No work due to Typhoon Mangkhut.
442	2	12-Sep	Rainy	Fair	Less production due to very wet site condition and water retained at dry well and generator building due to Typhoon Mangkhut.
					Equipment and work suspended at force main due to heavy rain from early morning to 9:30 am and isolated rainshower for the rest of the day.
443	2	13-Sep	Rainy	Rainy	

ATTACHMENT # 2

444	2	14-Sep	Fair/Rainy	Fair	Less production due to very wet site condition and early morning rain. Heavy Rain at 11:17 AM. Communication line excavation schedule postponed due to wet site condition.
445	2	15-Sep	Rainy	Rainy	Less production due to rain. Excavation works at communication line postponed. Most workers were sent home due to rain.
447	2	17-Sep	Fair	Fair	Less production due to very wet site condition because of early morning rain. Communication line excavation schedule suspended due to wet site condition.
448	2	18-Sep	Rainy/Fair	Fair	No major activity due to heavy rain
449	2	19-Sep	Rainy	Rainy	Production affected due to very wet site condition. Isolated rainshower (10:45 am) heavy rain from 1:05 PM and rainshowers in the afternoon.
451	2	21-Sep	Rainy	Heavy Rain	Less production due to heavy rain from 8am to 6 pm. National weather service issued flash flood warning for the weekend due to tropical depression.
452	2	22-Sep	Rainy	Heavy Rain	Less production due to very wet site condition and rainshower in the morning. Work shutdown in the afternoon due to heavy rain.
453	2	23-Sep	Rainy	Cloudy	No major activities due to wet site condition.
454	2	24-Sep	Light Rain	Fair	Less production due to very wet site condition due to early morning rain and light rainshower.
455	2	25-Sep	Rainy	Heavy Rain	Less production due to heavy rain. Force main line manhole concrete casting cancelled due to heavy rain.
456	2	26-Sep	Cloudy	Cloudy/ Rainy	Minimal production due to wet site condition.
458	2	28-Sep	Cloudy/Rainy	Rainy/Cloudy	Less production due to very wet site condition and heavy rain due to tropical depression on Guam.
459	2	29-Sep	Rainy	Rainy	Less production due to tropical storm 30W (TS-30W). Work shutdown due to heavy rain.
460	2	30-Sep	Fair	Rainy	
NOTE :					
Month			Actual unworkable days	Exceeded days from the specs	Average non-working days due to unusually severe weather days per specs (See attached)
August			25	14	11
Sept			24	13	11
Total			49	27	22

NOTE :

Category 1	11days	Work suspended due to storm/typhoon/heavy rain
Category 2	38days	No major activities/wet site condition/Less production
Total	49days	Unworkable days
Less	22days	Total allowable non-working days for the month of August & September per specs
Extra Time	27days	Total number of days exceeded the specs for the month of August & September

2.2Baza Gardens Wastewater Cross-Island Pumping and
Conveyance System (Phase-III)

- d. Partial occupancy before Substantial Completion.
 - e. Use of premises restrictions.
 - f. Provisions for future construction.
 - g. Seasonal variations.
 - h. Environmental control.
- D. **Cost Correlation:** At the head of schedule, provide a cost correlation line, indicating planned and actual costs. On the line, show dollar volume of the Work performed as of dates used for preparation of payment requests.
- 1. Refer to Division 1 Section "Payment Procedures" for cost reporting and payment procedures.
- E. The required construction time for this project includes the following non-work days due to unusually severe weather. Contractor shall allow for these average unusually severe weather days in their construction schedule:

January	7	July	10
February	5	August	11
March	5	September	11
April	4	October	10
May	5	November	7
June	6	December	7

2.3 PRELIMINARY CONSTRUCTION SCHEDULE

- A. **Bar-Chart Schedule:** Submit preliminary horizontal bar-chart-type construction schedule within seven days of date established for the Notice to Proceed.
- B. **Preparation:** Indicate each significant construction activity separately. Identify first workday of each week with a continuous vertical line. Outline significant construction activities for first 60 days of construction. Include skeleton diagram for the remainder of the Work and a cash requirement prediction based on indicated activities.

2.4 CONTRACTOR'S CONSTRUCTION SCHEDULE (GANTT CHART)

- A. **Gantt-Chart Schedule:** Submit a comprehensive, fully developed, horizontal Gantt-chart-type, Contractor's Construction Schedule within 10 days of date established for the Notice to Proceed Base schedule on the Preliminary Construction Schedule and whatever updating and feedback was received since the start of Project.
- B. **Preparation:** Indicate each significant construction activity separately. Identify first workday of each week with a continuous vertical line.

Baza Gardens Wastewater Cross-Island Pumping and Conveyance System, Phase III			
SUMMARY			
Item No.	Description	Amount (\$)	Remarks
A	Total Amount Deleted Scope of Works	2,828,302.00	
13	Perimeter Fence Line and Gates (Retaining walls)	103,033.00	
15	Headworks and pump station structure and finishing (Davit Crane)	34,283.00	
39	Equalization tank 2 complete in place	2,690,986.00	
B	Total Amount Remaining Scope of Works	876,985.40	
8	Site grading	34,667.00	
10	Building and site demolition and disposal	135,073.00	
12	Site Access Road and Pavement	157,584.00	
13	Perimeter Fence Line and Gates	104,890.40	
14	Site drainage improvement	53,042.00	
25	Site process piping complete in place	113,913.00	
31	Site electrical inclusive of transformer, light poles, communication and power lines complete in-place	48,285.00	
36	Baza Gardens WWTP Facility Demolition	85,811.00	
38	Equalization tank 1 complete in place	143,720.00	
C	Original Contract Amount	15,530,892.00	
D	Balance of Contract Amount (C-A)	12,702,590.00	
E	Percentage of Total Remaining Works (B/D)	6.90%	

BREAKDOWN OF DELETED SCOPE OF WORKS			
Item No.	Description	Scheduled Value (\$)	Remarks
13	Perimeter Fence Line and Gates		
13.3	Retaining Wall, Det. 1A/SO.1.10		
13.3.1	Foundation	30,981.00	
13.3.2	Walls	44,943.00	
13.3.3	Backfilling (Including required testing)	27,109.00	
15	Headworks and pump station structure and finishing		
15.3.6	Davit Crane and Pre-Engineered Hoist Assembly	34,283.00	
39	Equalization tank 2 complete in place		
39.1	Excavation and Disposal	302,629.00	
39.2	Basecourse Preparation (Including required testing)	30,753.00	
39.3	Backfill and Compaction (Including soil testing required)	282,135.00	
39.4	36" Thick Floor Slab	1,128,230.00	
39.5	24" Thick Walls and Columns	641,161.00	
39.6	12" Thick Wall	122,602.00	
39.7	Equalization Tank #2 leak test, H=18FT	38,880.00	
39.8	Sluice Gate, Det. 1&2/MP0.0.4	23,738.00	
39.9	Concrete walkway, 5Ft. Wide Det. 7/C9.1.1	66,743.00	
39.10	Coating works	54,115.00	
	Total Amount Deleted	2,828,302.00	

BREAKDOWN OF REMAINING SCOPE OF WORKS			
Item No.	Description	Scheduled Value (\$)	Remarks
8	Site grading		
8.2	Sequence 2 (50% completed)	34,667.00	
10	Building and site demolition and disposal		
10.1	Demolition and Disposal of Existing Headworks Building	66,871.00	
10.2	Demolition and Disposal of Existing Generator Building	34,089.00	
10.4	Required concrete demolition works for existing Equalization Tank #1	34,113.00	
12	Site Access Road and Pavement		
12.2	New AC Paving Access Road	157,584.00	
13	Perimeter Fence Line and Gates		
13.1	Chainlink Fence, 8' High, Det. 1/C9.1.12 (30% completed)	75,314.40	
13.2	Chainlink Fence, 6' High, Det. 2/C9.1.10	29,576.00	
14	Site drainage improvement		
	Sequence 1		
14.1.3	Riprap Splash Apron, Det. 1/C9.1.16	4,603.00	
14.1.5	Concrete Swale (4' Wide and 6' Wide), Det. C9.1.2	2,531.50	
14.1.6	Overflow Structure Type 2 (Riprap)	6,828.00	
	Sequence 2		
14.2.5	Riprap Splash Apron, Det. 1/C9.1.16	4,603.00	
14.2.7	Concrete Swale (4' Wide and 6' Wide), Det. C9.1.2	28,428.50	
14.2.8	Overflow Structure Type 1 (Riprap)	6,048.00	
25	Site process piping complete in place		
25.2	Sequence 2 (Including required testing)	113,913.00	
31	Site electrical inclusive of transformer, light poles, communication and power lines complete in-place		
31.4	Electrical Light Pole Foundation	48,285.00	
36	Baza Gardens WWTP Facility Demolition		
36.8	Removal of existing Clarifier's catwalk, steel walls, equipment, process pipings, pipe railings etc.	85,811.00	
38	Equalization tank 1 complete in place		
38.2	Construct new sump pit and overflow pipe opening, Det. 1/S2.1.4 (Including finishing floor slab)	14,842.00	
38.3	Equalization Tank #1 leak test, H=18FT	25,187.00	
38.4	New concrete barriers, Det 3/S2.1.4	30,560.00	
38.5	Sluice Gate, Det. 1&2/MP0.0.4	19,387.00	
38.6	New Aluminum Railings - 1 1/2" Dia. - 2EA Rails x 3' - 6"High	17,541.00	
38.7	Coating works	36,203.00	
	Total Amount Remaining	876,985.40	