



DELIBERASAUN N. 26/III/CAFI/2025

Conselho de Administração do Fundo das Infraestruturas – CAFI, bazeia ba artigo 10º (1) e (3) DL Nº. 25/2024, de 22 de maio, Primeira Alteração ao DL Nº.13/2016, 18 de Maio, realiza reuniaun ordinária iha loron Sexta-feira, 28 de Março de 2025, e halo deliberaun ba assunto tuir mai ne'e:

Asuntu: Pedido Aprovasaun nune'e mos konfirma finansiamentu iha Orsamentu FI 2025 ba Kustu Adisional ba Variation Order no.2, ba projetu Construction of Galata Irrigation Schemes, Municipality Baucau, (ICB/118/MAP-2021)

Proponente: Ministério da Agricultura, Pecuária Pesca e Floresta — MAPPF

Notas/justifikasaun:

- SGP simu karta husi Ministério da Agricultura, Pecuária, Pesca e Florestas – MAPPF ho no. Ref.: 71/DGACPI/II/2025, data 25 de fevereiro de 2025, ho asuntu: Pedidu Agendamentu Encontro ba Orsamentu Additional ba Projeto Konstrusaun Eskema Irrigasaun Galata iha Municipio Baucau;
- Resultadu verifikasiadu ADN, I.P, ho karta no. ref.: 0273/ADN,I.P./IV/2025, data 2 de abril 2025, ho asuntu: resultadu verifikasiadu – Variation Order No.1 for project Construction of Galata Irrigation Schemes, Municipality Baucau, ho montante verifikasiadu \$11,030,000.00;
- Resultadu verifikasiadu ADN, I.P, ho karta no. ref.: 0224/ADN,I.P./II/2025, data 13 de fevereiro 2025, ho asuntu: resultadu verifikasiadu – Variation Order No.2 Construction of Galata Irrigation Schemes, Municipality Baucau, ho montante verifikasiadu \$ 13,681,107.39;
- Construction of Galata Irrigation Schemes, Municipality Baucau, ne'ebe hetan ona verifikasiadu ADN I.P. ba kustu adisional ho VO#2 \$ 2,651,107.39 kontratu original ho montante \$11,030,000.00;
- Alokasaun orsamentu FI 2025: \$2.872.812,00 Kodigu atividade: A390403 Construção e supervisão da Irrigação de Galata.
- Dono do projeto sei assume responsabilidade hodi assegura orsamentu ba Ezekusān no Implementasaun projeto;
- Projeto nain sei asume responsabilidade ba koordenasaun entre entidade relevantes ba implementasaun projeto ne'e, e ba supervisaun, monitorizaun e akompanhamentu ba projeto ne'e iha faze implementasaun, e sei garante kualidade servisu konstrusaun nian tuir espesifikasiadu nebe aprova ona;
- Lista proposta:

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Naran projetu/valor kontratu original	VO #2: kustu adisional & kontratu orijial	Alokasaun orsamentu iha FI 2025
<ul style="list-style-type: none"> • Construction of Galata Irrigation Schemes, Municipality Baucau; • <i>Valor kontratu orijinal \$11,030,000.00</i> 	<ul style="list-style-type: none"> • Kustu adisional \$2,651,107.39, • Valor final (kontratu Original + kustu adisional) : \$11,030,000.00 + \$2,651,107.39 = \$ 13,681,107.39 	<ul style="list-style-type: none"> • Alokasaun orsamentu FI 2025: \$2.872.812,00; • Programa A39: Agricultura, Horticultura, Café e de Plantas Industriais e Anuais; • Kodigu atividade A390403: Construção e supervisão da Irrigação de Galata;

Rekomendasaun:

- 1) CAFI atu aprova no konfirma finasiamentu ba Projetu Construction of Galata Irrigation Schemes, Municipality Baucau, bazeia ba pedidu husi Ministério da Agricultura, Pecuária Pesca e Floresta — MAPPF ho kustu adisional ba Variatio Order no.2 ho montante \$2,651,107.39;
- 2) Refere ba lista propopsta, CAFI konfirma disponibilidade orsamentu iha FI tinan 2025, molok CdM autoriza despezas bazeia alinea 1 (a) Artigo 5º Dekreto Lei 23/2022, de 19 de Maio, Competência Para a Autorização de Despesa;
- 3) Nesesita autorizasaun despezas husi Conselho de Ministro ba Projetu Construction of Galata Irrigation Schemes, Municipality Baucau, kustu total ba projetu hafoin iha kustu additional ba Variation order ho montante \$ 13,681,107.39;
- 4) Dono do projetu sei assume responsabilidade hodi assegura orsamentu ba, Ezekusan no Implementasaun projetu;
- 5) Projetu nain sei asume responsabilidade ba koordenasaun entre entidade relevantes ba implementasaun projetu ne'e, e ba supervizaun, monitorizasaun e akompanhamentu ba projetu ne'e iha faze implementasaun, e sei garante kualidade servisu konstrusaun nian tuir espesifikasiasaun nebe aprova ona;

Desizaun:

1. CAFI aprova no konfirma finasiamentu ba projetu Construction of Galata Irrigation Schemes, Municipality Baucau, bazeia ba pedidu husi Ministério da Agricultura, Pecuária Pesca e Floresta — MAPPF;
2. Refere ba lista propopsta, CAFI konfirma disponibilidade orsamentu iha FI tinan 2025, molok CdM autoriza despezas bazeia alinea 1 (a) Artigo 5º Dekreto/Lei 23/2022, de 19 de Maio, Competência Para a Autorização de Despesa;

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3. Aprovasaun no Autorizasaun despezas husi Conselho de Ministro ba Projetu Construction of Galata Irrigation Schemes, Municipality Baucau, bazeia ba pedidu husi Ministério da Agricultura, Pecuaria Pescas e Floresta — MAPPF, kustu total ba projetu hafoin iha kustu additional ba Variation order ho montante \$ 13,681,107.39;
4. Dono do projetu sei assume responsabilidade hodi assegura orsamentu ba, Ezekusan no Implementasaun projetu;
5. Projetu nain sei asume responsabilidade ba koordenasaun entre entidade relevantes ba implementasaun projetu ne'e, e ba supervizaun, monitorizaun e akompanhamentu ba projetu ne'e iha faze implementasaun, e sei garante kualidade servisu konstrusaun nian tuir espesifikasiunaun nebe aprova ona;
6. Lista aprovasaun:

Naran Projeto/Empresa	VO #2/ kustu valor final kontratu	Orgaun Kompetênti Autoriza despezas - DL No. 23/2022, 19 de Maio
<ul style="list-style-type: none">• Construction of Galata Irrigation Schemes, Municipality Baucau;• <i>China Civil Engineering Construction Corporation;</i>	<ul style="list-style-type: none">• Kustu adisional \$2,651,107.39;• Valor final kontratu inklui VO#2: \$ 13,681,107.39;	CAFI: Aprova no Konfirma Finansiamentu; CdM: Autoriza Despezas.

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IX GOVERNO CONSTITUCIONAL
MINISTÉRIO DO PLANEAMENTO E INVESTIMENTO ESTRATÉGICO
FUNDO DAS INFRAESTRUTURAS



Conselho de
Administração

Aprovado husi CAFI iha loron 28 de março de 2025.

O Conselho de Administração do Fundo das Infraestruturas
O presidente,



Gastão Francisco de Sousa
Ministro do Planeamento e Investimento Estratégico



Santina José Rodrigues Ferreira Viegas Cardoso
Ministra das Finanças



Miguel Marques Gonçalves Manetelu
Ministro dos Transportes e Comunicações



Samuel Marçal
Ministro das Obras Públicas

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IX GOVERNO CONSTITUCIONAL
MINISTÉRIO DO PLANEAMENTO E INVESTIMENTO ESTRATÉGICO
FUNDO DAS INFRAESTRUTURAS



Conselho de
Administração

Annexo:

DELIBERASAUN N.º 26/III/CAFI/2025

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REPÚBLICA DEMOCRÁTICA DE TIMOR-LESTE
Ministério do Planeamento e Investimento Estratégico
Fundo das Infraestruturas

NOTA DE DESPAICHO

1. ORIGEM DO DOCUMENTO

N Ref; 71/DGACPI/III/2025

Data do Documento : 25 / 02 /2025

Proveniência do Documento

MAPPF

2. DETALHES DO DOCUMENTO

Data Entrada do Documento: 25/ 02 /2025

Assunto:

Pedidu Ajendamentu Enkontru orsamentu additional ba projeto konstrusaun eskema irrigasaun Galata iha Muisipiu Baucau

Enviado ao:

1. Sr/ Mauricio Borges

2. Sr/a _____

3. Sr/a _____

4. Assessores Nacionais / Internacionais

3. INSTRUÇÃO DO DIRETOR DO SGP

Data do Despacho: 25/2 /2025

Para Sr/a

1. Sr/a Mauricio Borges

2. Sr/a Ana Faís M

3. Sr/a _____

Despacho:

Harc António id. nr

Assinatura :


Mauricio Borges



REPÚBLICA DEMOCRATICA DE TIMOR LESTE
MINISTERÍO DA AGRICULTURA, PECUÁRIA, PESCA E FLORESTAS
DIREÇÃO-GERAL DE AGRICULTURA, CAFÉ E PLANTAS INDUSTRIAS



Ref. No : 71 / DGACPI /II/2025

Ex.mo : Sr. Mauricio Borges
Director Executivo do Secretariado dos Grandes Projeto (SGP)

Assunto : Pedido Ajendamento Enkontru orsamento additional ba projetu konstrusaun eskema irrigasaun Galata iha Municipio Baucau

Ministerio da Agricultura, Pecuária, Pesca e Florestas, iha projetu konstrusaun ba eskema irrigasaun Galata iha Municipio Baucau.

Orsamento ba Konstrusaun eskema irrigasaun Galata Baucau, mai husi Fundus infraestrutura ho montante orsamneto ba konstrusaun hamutuk US\$ 11,030,000.00 no implenta husi kompanhia China Civil Engineering Construction Corporation (CCECC) ho numero contrato ICB/118/MAP-2021.

Razaun husu orsamento additional tama, projetu konstrusaun eskema irrigasaun Galata Municipio Baucau, lori tinan naruk mak halao ninia faze konstursaun/implentasaun. Detalho desenho no custo estimasaun finaliza iha 2009, hafoin 2022 mak implementa/realiza ninia construsaun (hafoin tinan 13 mak implementa), ho ida nee, situasaun atual iha terreno, lao la tuir desenho nebe planeado ona, volume de servisu aumenta no item servisu mos aumenta. Atu konstrusaun eskema irrigasaun Galata Municipio Baucau lao ho susesu no natar nain sira hetan ninia benefisio, maka presiza completa ba mudansa nebe mak iha. Desenho no Custo estimasaun ba orsamento hetan ona verifikasi saun no aprovsauh husi Agencia de Desenvolvimento Nacional-I.P (ADN_IP) iha 13 de Fevereiro de 2025 ho numero karta 0224/ADN,I.P/II/2025

Ho ida nee maka, Ministerio da Agricultura, Pecuária, Pesca e Florestas, husu ba ba Secretariado dos Grandes Projeto (SGP) atu tau ajendimento enkontru ba Konsellu Administrasaun Fundu Infraestrutura (KAFI) hodi nune bele hetan aprovsauh.

Dokumentus mak hanesan tuir mai

- Sumario Desenho
- Custo Estimasaun nebe hetan ona aprovsauh husi ADN,I.P
- Varation Order No.2 & Engineering Determination with Thecnichal Justification

Mak nee deit ba ita nia servico hamutuk hato'o obrigado.

Dili, 25 de Fevereiro de 2025

Martinho Laurentino Soares
Diretor Geral

Cc :

- 1) Sua. Excia. Ministro da Agricultura, Pecuária Pesca e Florestas
- 2) Inspektur Geral – MAPPF;
- 3) Arkivo



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

Dili, 13 de Fevereiro de 2025

No. Ref : 0224/ADN, I.P/II/2025

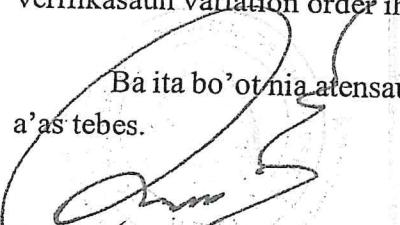
Hato'o ba : Sr. Martinho Laurentino Soares
Diretor Geral - MAPPF

Asuntu : Resultado Verifikasi - Variation Order No. 2 Construction of Galata Irrigation Schemes, Municipality Baucau

Ho Respeito,

Bazeia ba karta pedidu verifikasi ho no ref: 59/DGACPI/II/2025 ho data 05 de Fevereiro de 2025, ba asuntu ne'ebe mensiona iha leten, ekipa verifikasi Unidade Avaliação do Projetos -ADN, I.P. hala'o ona verifikasi ba dokumentos refere. Ho nune bele hare resultado verifikasi variation order iha (aneksu).

Bá ita bo'ot nia atensaun ami hato'o agradecimento wain no subkreve ho konsiderasaun a'as tebes.


Rui Lourenço da Costa
Diretor Executivo - ADN, I.P.



Bedik-Hun, Fatuhada
Dili - Timor-Leste
info@mpie.gov.tl



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

FORMULARIO DE DESPACHO

Data de Entrada Documentos : 05 /02/2025

Data do Documentos : 05/02/2025

Husi : MAP

No. Ref : 59 /DG-ACPI /II /2025

Projecto :

Konstrusaun sistema Irrigasaun -
Galata Municipio Baucau

Quantidade Documentos : 5

Anexo USB 1

Resultado ADN

BILL OF Quantities 1

Technical Justification 1

Drawing Document 1

Menutas Meeting 1

Assuntos :

Re-submisaun Dokumentus pedidu
Variation Order No. 02

No.Tlf : -

Companhia : -

China civil JV Dongsung

Despacho :

Unidade de Gestão Administrativa

Unidade de Avaliação de Projectos

Unidade de Controlo e Validação de Qualidade

Unidade de Estudos e Desenvolvimento de Competências

Solicitação UEP atendida

Adjunto

Assessor/a

Gabinete DE/Base de Dados

Other

Data : 05/02/2025

Rui Lourenço da Costa
Director Executivo ADN



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

CHECK LIST DOKUMENTOS BA VARIATION ORDER & ADDITIONAL

PROJECTO NAIN / KOMPANHIA : China Civil Eng. Ltd (pedido
Verifikasi sara Variation Order Nu. 02)

No	DOKUMENTOS NIA NARAN	
1.	Karta Akompanhamento Husi Projecto Nain	✓
2.	Desenhu tenke iha HVS Medida A3 no hetan Aprovasaun husi Projektu Nain no Ministerio (MOP)	✓
3.	Cost Estimasaun ho BOQ Tenke Hetan Aprovasaun Husi Projektu Nain ou Ministerio (MOP)	✓
4.	Agreement Contract	✓
5.	Soft Copy (BOQ iha Excel) no (Desenho iha Auto Cad) /USB	✓



REPÚBLICA DEMOCRATICA DE TIMOR LESTE
MINISTERÍO DA AGRICULTURA, PECUÁRIA, PESCA E FLORESTAS
DIREÇÃO-GERAL DE AGRICULTURA, CAFÉ E PLANTAS INDUSTRIAS



Ref. No : Sg...../ DGACPI/II/2025

Ex.mo : Sr. Rui Lourenço da Costa
Director Executivo Agencia de Desenvolvimento Nacional-IP (ADN_IP)

Assunto : Re-Submisaun dokumentus Pedidu Variation Order no.2 ba Konstrusaun
Eskema Irrigasaun Galata Municipio Baucau.

Ministerio da Agricultura, Pecuária, Pesca e Florestas, Submete fila fali dokumentu variation order No-2 ba projetu konstrusaun eskema irrigasaun Galata iha Municipio Baucau ba Agencia de Desenvolvimento Nacional-IP (ADN_IP) atu halo re verifikasi saun no aprova saun ba dokumentus refere.

Razaun halo reverifikasi saun ba dokumentus refere tamba baseia ba resultado verifikasi saun nebe ADN aprova husi ADN iha data 17 de dezembro de 2024 ho carta nu Ref: 2351/ADN.I.P./XII/2024, la ho kuantidade ho nia montante orsamento (BoQ). Ho razaun ida nee maka, MAPPF husu atu halo reverifikasi saun ba dokumentus Variation Order No.2 ba Konstrusaun Esekema Irrigasaun Galata Municipio Baucau.

Dokumentus atu halo re verifika mak hanesan tuir mai

- Review Drawings Documents
- Bill of Quantities
- Technical Justification
- Soft Copy usb
 - Review Design
 - Bill of Quantities (BoQ)
 - Backup data

Mak nee deit ba ita nia servico hamutuk hato'o obrigado.

Dili, 05 de Fevereiro de 2025

Martinho Laurentino Soares

Diretor Geral

Cc :

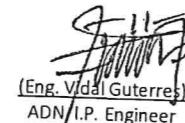
- 1) Sua Excia. Ministro da Agricultura, Pecuária Pesca e Florestas
- 2) Inspektur Geral – MAPPF;
- 3) Arkivo

SUMMARY OF VARIATION ORDER NO 2

PROJECT : GALATA IRRIGATION SCHEMES
PACKAGE NO : China Civil Engineering Construction Corporation
LOCATION : ICB/118/MAP-2021
SUPERVISION CONSULTANT : Uatuhaco, Bado-hoo, Bercoli and Bahamori suco, sub district Venilale
Dongsung Engineering Co Ltd

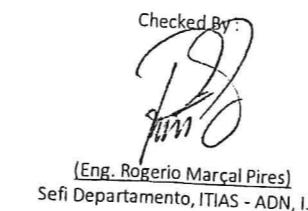
No.	WORKS DESCRIPTION	CONTRACT		VARIATION ORDER NO 1		VARIATION ORDER NO 2		Rejultado Verifikasiadn ADN Price (US\$)
		TOTAL (US \$)	(%)	TOTAL (US \$)	(%)	TOTAL (US \$)	(%)	
I	Preparatory Works	\$ 129.756,30	1,18%	\$ 129.756,30	1,18%	\$ 129.756,30	1,18%	\$ 129.756,30
II	Temporary Cofferdam and Dewatering Works	\$ 337.984,41	3,06%	\$ 175.824,86	1,59%	\$ 186.962,08	1,70%	\$ 186.962,08
III	Construction of Weir	\$ 1.476.331,59	13,38%	\$ 1.199.865,25	10,88%	\$ 1.199.865,25	10,88%	\$ 1.199.865,25
IV	Construction of Right Sediment Trap	\$ 116.991,06	1,06%	\$ 123.873,98	1,12%	\$ 175.543,79	1,59%	\$ 175.543,79
V	Construction of Left Sediment Trap	\$ 104.390,39	0,95%	\$ 183.955,70	1,67%	\$ 186.296,49	1,69%	\$ 186.296,49
VI	Construction of Right Retraining Wall	\$ 658.500,76	5,97%	\$ 658.500,76	5,97%	\$ 667.467,76	6,05%	\$ 667.467,76
VII	Construction of Left Retraining Wall	\$ 575.488,95	5,22%	\$ 575.150,76	5,21%	\$ 590.547,09	5,35%	\$ 590.547,09
VIII	Right Galata Main Canal Works	\$ 2.702.034,60	24,50%	\$ 3.553.754,51	32,22%	\$ 3.819.409,57	34,63%	\$ 3.819.409,57
IX	Left Galata Main Canal Works	\$ 1.413.593,13	12,82%	\$ 1.470.063,24	13,33%	\$ 2.350.119,82	21,31%	\$ 2.350.119,82
X	Galata Secondary Canal Works	\$ 1.772.266,54	16,07%	\$ 1.913.721,41	17,35%	\$ 2.590.831,24	23,49%	\$ 2.590.831,24
XI	Galata - 1 Secondary Canal Works	\$ 183.969,59	1,67%	\$ 152.309,42	1,38%	\$ 0,00	0,00%	\$ 0,00
XII	Constrction of Inspection Road	\$ 128.164,86	1,16%	\$ 32.189,21	0,29%	\$ 637.884,68	5,78%	\$ 637.884,68
XIII	Oebobo Pipe Works	\$ 280.578,60	2,54%	\$ 280.578,60	2,54%	\$ 280.798,26	2,55%	\$ 280.798,26
XIV	OVER HEAD	\$ 513.606,39	4,66%	\$ 513.606,39	4,66%	\$ 513.606,39	4,66%	\$ 513.606,39
XV	Access Road	\$ -	0,00%	\$ 66.849,62	0,61%	\$ 66.849,62	0,61%	\$ 66.849,62
XVI	Oebobo Canal Works	\$ -	0,00%	\$ -	0,00%	\$ 211.341,83	1,92%	\$ 211.341,83
XVII	Maintenance room	\$ -	0,00%	\$ -	0,00%	\$ 20.578,55	0,19%	\$ 20.578,55
XVIII	Batch Plant Irrigation Works	\$ -	0,00%	\$ -	0,00%	\$ 53.248,67	0,48%	\$ 53.248,67
A	CONSTRUCTION COST	\$ 10.393.657,15	94,23%	\$ 11.030.000,00	100,00%	\$ 13.681.107,39	124,04%	\$ 13.681.107,39
B	Physical Contingencies (5% of Construction Cost)	\$ 519.682,86	4,71%	\$ -	0,00%	\$ -	0,00%	\$ -
C	Provisional Sum for Construction of Buildings	\$ 116.660,00	1,06%	\$ -	0,00%	\$ -	0,00%	\$ -
D	Grand Total (A+B+C)	\$ 11.030.000,00	100,00%	\$ 11.030.000,00	100,00%	\$ 13.681.107,39	124,04%	\$ 13.681.107,39

Verified by :



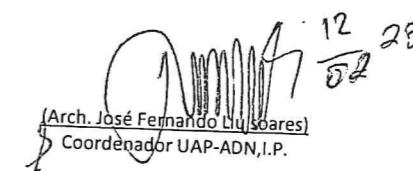
(Eng. Vidal Guterres)
ADN/I.P. Engineer

Checked By:



(Eng. Rogerio Marcal Pires)
Sefi Departamento, ITIAS - ADN, I.P.

Certified By:



(Arch. José Fernando Lemos Soares)
Coordenador UAP-ADN,I.P.



AGÊNCIA DE DESENVOLVIMENTO NACIONAL, I. P.

VARIATION ORDER NO 2

PROJECT : CONSTRUCTION OF GALATA IRRIGATION SCHEMES
CONTRACTOR : CHINA CIVIL ENGINEERING CONSTRUCTION CORPORATION
PACKAGE NO : ICB/118/MAP-2021
LOCATION : Uatuhalo, Bado-hoo, Bercoli and Bahamori suco, sub district Venilale
CONSULTANT : DONGSUNG ENGINEERING CO, LTD

	WORKS DESCRIPTION	UNIT	CONTRACT			VARIATION ORDER NO.1			VARIATION ORDER NO 2			Rejultado Verifikasiun ADN VO.2		
			QTY	UNIT PRICE	TOTAL	QTY	UNIT PRICE	TOTAL	QTY	PRICE	(US \$)	QTY	PRICES US\$)	Amount (US\$)
				(US \$)	(US \$)		(US \$)	(US \$)		(US \$)	(US \$)			
	I Preparatory Works													
1	Mobilization to site		1,00	83700,92	83.700,92	1,00	83700,92	83.700,92	1,00	83.700,92	83.700,92	1,00	\$ 83.700,92	\$ 83.700,92
2	Demobilization from site	LS	1,00	12060,38	12.060,38	1,00	12060,38	12.060,38	1,00	12.060,38	12.060,38	1,00	\$ 12.060,38	\$ 12.060,38
3	Contractor Site Office	LS	1,00	16798,76	16.798,76	1,00	16798,76	16.798,76	1,00	16.798,76	16.798,76	1,00	\$ 16.798,76	\$ 16.798,76
4	Provision and maintenance of project signs	LS	1,00	5020,80	5.020,80	1,00	5020,80	5.020,80	1,00	5.020,80	5.020,80	1,00	\$ 5.020,80	\$ 5.020,80
5	Site Office for Consultant	LS	1,00	12175,44	12.175,44	1,00	12175,44	12.175,44	1,00	12.175,44	12.175,44	1,00	\$ 12.175,44	\$ 12.175,44
TOTAL BILL NO. I					129.756,30			129.756,30		129.756,30				\$ 129.756,30
II. Temporary River Diversion Channel, Temporary Cofferdam and Dewatering Works														
1	Temporary River Diversion Channel:													
	a. Common Excavation	cu.m	18.099,62	4,74	85.792,19	-	4,74	-	0,00	0,00	0,00	0,00	\$ 4,74	\$ -
	b. Backfill for diversion channel	cu.m	18.099,62	4,97	89.955,10	-	4,97	-	0,00	0,00	0,00	0,00	\$ 4,97	\$ -
	c.Rock Excavation	cu.m		6,10	-	2.227,50	6,10	13.587,75	2.227,50	13.587,75	2.227,50	\$ 6,10	\$ 13.587,75	
	d.concrete pipe dia 1.2m	m	-	348,04	-	-	348,04	-	32,00	11.137,22	32,00	\$ 348,04	\$ 11.137,22	
2	Temporary Cofferdam	LS	1,00	107445,12	107.445,12	1,00	107445,12	107.445,12	1,00	107.445,12	1,00	\$ 107.445,12	\$ 107.445,12	
3	Dewatering (by pumping system) at all sites	LS	1,00	54791,99	54.791,99	1,00	54791,99	54.791,99	1,00	54.791,99	1,00	\$ 54.791,99	\$ 54.791,99	
TOTAL BILL NO. II					337.984,41			175.824,86		186.962,08				186.962,08
III. Construction of Weir														
1	Common Excavation	cu.m	24.935,09	4,74	118.192,33	8.588,05	4,74	40.707,33	8.588,05	40.707,33	8.588,05	\$ 4,74	\$ 40.707,33	
2	Rock Excavation	cu.m	8.311,70	6,1	50.701,37	1.124,46	6,1	6.859,21	1.124,46	6.859,21	1.124,46	\$ 6,10	\$ 6.859,21	
3	Embankment with compaction	cu.m	25.962,51	5,63	146.168,93	-	5,63	-	0,00	0,00	0,00	\$ 5,63	\$ -	

	WORKS DESCRIPTION	UNIT	CONTRACT			VARIATION ORDER NO.1			VARIATION ORDER NO 2			Rejultado Verifikasiadn ADN VO.2		
			QTY	UNIT PRICE	TOTAL	QTY	UNIT PRICE	TOTAL	QTY	PRICE (US \$)	QTY	PRICES US\$)	Amount (US\$)	
				(US \$)	(US \$)		(US \$)	(US \$)		(US \$)		(US \$)		
4	Backfill	cu.m	803,60	4,97	3.993,89	803,60	4,97	3.993,89	803,60	3.993,89	803,60	\$ 4,97	\$ 3.993,89	
5	Concrete Type-A ($f'_c = 35 \text{ MPa}$)	cu.m	729,90	231,93	169.285,71	729,90	231,93	169.285,71	729,90	169.285,71	729,90	\$ 231,93	\$ 169.285,71	
6	Concrete Type-B ($f'_c = 22.5 \text{ MPa}$)	cu.m	862,49	198,46	171.169,77	862,49	198,46	171.169,77	862,49	171.169,77	862,49	\$ 198,46	\$ 171.169,77	
7	Concrete Type-C ($f'_c = 17.5 \text{ MPa}$)	cu.m	165,14	185,91	30.701,18	165,14	185,91	30.701,18	165,14	30.701,18	165,14	\$ 185,91	\$ 30.701,18	
8	Concrete Type-F ($f'_c = 12.5 \text{ MPa}$)	cu.m	2.513,18	171,27	430.432,34	2.513,18	171,27	430.432,34	2.513,18	430.432,34	2.513,18	\$ 171,27	\$ 430.432,34	
9	Precast Concrete Block ($f'_c=17.5 \text{ Mpa}$)	nos	564,00	238,99	134.790,36	564,00	238,99	134.790,36	564,00	134.790,36	564,00	\$ 238,99	\$ 134.790,36	
10	Form F1 (non exposed surface)	sq.m	1.515,88	9,72	14.734,35	1.515,88	9,72	14.734,35	1.515,88	14.734,35	1.515,88	\$ 9,72	\$ 14.734,35	
11	Form F2 (exposed surface)	sq.m	305,79	9,72	2.972,28	305,79	9,72	2.972,28	305,79	2.972,28	305,79	\$ 9,72	\$ 2.972,28	
12	Form F4 (curved exposed surface)	sq.m	54,63	9,72	531,00	54,63	9,72	531,00	54,63	531,00	54,63	\$ 9,72	\$ 531,00	
13	Reinforcement bar, deformed	kg	41.751,12	1,61	67.219,30	41.751,12	1,61	67.219,30	41.751,12	67.219,30	41.751,12	\$ 1,61	\$ 67.219,30	
14	Reinforcement bar, plain	kg	1.824,02	1,61	2.936,67	1.824,02	1,61	2.936,67	1.824,02	2.936,67	1.824,02	\$ 1,61	\$ 2.936,67	
15	Supply & Install. Intake trashrack 5.20 x 6.00	nos	2,00	38738,54	77.477,08	2,00	38738,54	77.477,08	2,00	77.477,08	2,00	\$ 38.738,54	\$ 77.477,08	
16	Supply & Install. Scouring gate B = 1.50 m, h = 2.10 m, H = 6.90 m	nos	4,00	5508,14	22.032,56	4,00	5508,14	22.032,56	4,00	22.032,56	4,00	\$ 5.508,14	\$ 22.032,56	
17	Supply & Install. Intake gate B = 1.00 m, h = 0.75 m, H = 5.90 m	nos	1,00	1180,31	1.180,31	1,00	1180,31	1.180,31	1,00	1.180,31	1,00	\$ 1.180,31	\$ 1.180,31	
18	Supply & Install. Intake gate B = 0.60 m, h = 0.75 m, H = 5.90 m	nos	1,00	938,2	938,20	1,00	938,2	938,20	1,00	938,20	1,00	\$ 938,20	\$ 938,20	
19	Supply and installing PVC waterstop, 24 cm width	lin.m	735,37	7,57	5.566,75	735,37	7,57	5.566,75	735,37	5.566,75	735,37	\$ 7,57	\$ 5.566,75	
20	Supply and installing hand rail, GSP pipe dia. 2.5"	lin.m	36,39	37,66	1.370,45	36,39	37,66	1.370,45	36,39	1.370,45	36,39	\$ 37,66	\$ 1.370,45	
21	Supply and installing Joint Filler	sq.m	1.515,88	6,9	10.459,57	215,84	6,9	1.489,32	215,84	1.489,32	215,84	\$ 6,90	\$ 1.489,32	
22	Supply and installing Joint Sealant	lin.m	735,37	10,04	7.383,11	735,37	10,04	7.383,11	735,37	7.383,11	735,37	\$ 10,04	\$ 7.383,11	
23	Supply and installing Water Level Staff Gauge, w = 0.12 m	lin.m	9,00	5,75	51,75	9,00	5,75	51,75	9,00	51,75	9,00	\$ 5,75	\$ 51,75	
24	Supply and installing Water Level Staff Gauge, w = 0.50 m	lin.m	7,00	21,19	148,33	7,00	21,19	148,33	7,00	148,33	7,00	\$ 21,19	\$ 148,33	
25	Supply and installing Dowel Bar, dia. 19 mm, L = 1.20 m	nos	227,00	4,28	971,56	227,00	4,28	971,56	227,00	971,56	227,00	\$ 4,28	\$ 971,56	
26	Supply and installing steel L-beam 100 x 100 x 10	lin.m	2.029,12	2,03	4.119,11	2.029,12	2,03	4.119,11	2.029,12	4.119,11	2.029,12	\$ 2,03	\$ 4.119,11	
27	Supplying and installing Nomenclature of weir	LS	2,00	401,66	803,32	2,00	401,66	803,32	2,00	803,32	2,00	\$ 401,66	\$ 803,32	
TOTAL BILL NO. III					1.476.331,59			1.199.865,25		1.199.865,25			1.199.865,25	
IV. Construction of Right Sediment Trap														
1	Common Excavation	cu.m	88,57	4,74	419,82	2.200,00	4,74	10.428,00	1.741,35	8.254,01	1.741,35	\$ 4,74	\$ 8.254,01	
2	Rock Excavation	cu.m	29,47	6,1	179,77	29,47	6,1	179,77	29,47	179,77	29,47	\$ 6,10	\$ 179,77	
3	Embankment with compaction	cu.m	1.034,62	5,63	5.824,91	100,00	5,63	563,00	100,00	563,00	100,00	\$ 5,63	\$ 563,00	

	WORKS DESCRIPTION	UNIT	CONTRACT			VARIATION ORDER NO.1			VARIATION ORDER NO 2			Rejultado Verifikasi Adn VO.2		
			QTY	UNIT PRICE	TOTAL	QTY	UNIT PRICE	TOTAL	QTY	PRICE (US \$)	QTY	PRICES US\$)	Amount (US\$)	
				(US \$)	(US \$)		(US \$)	(US \$)		(US \$)				
4	Backfill	cu.m	10,09	4,97	50,15	440,00	4,97	2.186,80	582,48	2.894,93	582,48	\$ 4,97	\$ 2.894,93	
5	Concrete Type-C ($f_c = 17.5 \text{ MPa}$)	cu.m	275,53	185,91	51.223,78	275,53	185,91	51.223,78	351,11	65.274,86	351,11	\$ 185,91	\$ 65.274,86	
6	Concrete Type-F ($f_c = 12.5 \text{ MPa}$)	cu.m	27,52	171,27	4.713,35	27,52	171,27	4.713,35	34,69	5.941,44	34,69	\$ 171,27	\$ 5.941,44	
7	Form F1 (exposed surface)	sq.m	363,89	9,72	3.537,01	363,89	9,72	3.537,01	947,15	9.206,26	947,15	\$ 9,72	\$ 9.206,26	
8	Form F2 (exposed surface)	sq.m	311,78	9,72	3.030,50	311,78	9,72	3.030,50	835,77	8.123,73	835,77	\$ 9,72	\$ 8.123,73	
9	Reinforcement bar, deformed	kg	18.436,86	1,61	29.683,34	18.436,86	1,61	29.683,34	35.163,70	56.613,55	35.163,70	\$ 1,61	\$ 56.613,55	
10	Supply and installing Joint Filler	sq.m	363,89	6,9	2.510,84	363,89	6,9	2.510,84	363,89	2.510,84	363,89	\$ 6,90	\$ 2.510,84	
11	Supply and installing Joint Sealant	lin.m	35,59	10,04	357,32	35,59	10,04	357,32	35,59	357,32	35,59	\$ 10,04	\$ 357,32	
12	Supply and installing Dowel Bar, dia. 19 mm, L = 1.20 m	nos	42,00	4,28	179,76	42,00	4,28	179,76	59,00	252,52	59,00	\$ 4,28	\$ 252,52	
13	Supply and installing PVC waterstop, 24 cm width	lin.m	100,97	7,57	764,34	100,97	7,57	764,34	113,00	855,41	113,00	\$ 7,57	\$ 855,41	
14	Supply and installing Water Level Staff Gauge, w = 0.12 m	lin.m	1,15	5,75	6,61	1,15	5,75	6,61	1,15	6,61	1,15	\$ 5,75	\$ 6,61	
15	Supply and installing steel L-beam 100 x 100 x 10	lin.m	483,41	2,03	981,32	483,41	2,03	981,32	483,41	981,32	483,41	\$ 2,03	\$ 981,32	
16	Supply & Install. Flushing gate B = 1.00 m, h = 2.00 m, H = 4.10 m	nos	2,00	6143,69	12.287,38	2,00	6143,69	12.287,38	2,00	12.287,38	2,00	\$ 6.143,69	\$ 12.287,38	
17	Supply & Install. Regulating gate B = 1.00 m, h = 0.70 m, H = 2.60m	nos	1,00	1240,84	1.240,84	1,00	1240,84	1.240,84	1,00	1.240,84	1,00	\$ 1.240,84	\$ 1.240,84	
TOTAL BILL NO. IV					116.991,06			123.873,98		175.543,79				175.543,79
V. Construction of Left Sediment Trap														
1	Common Excavation	cu.m	78,23	4,74	370,81	3.000,00	4,74	14.220,00	3.000,00	14.220,00	3.000,00	\$ 4,74	\$ 14.220,00	
2	Rock Excavation	cu.m	26,03	6,1	158,78	26,03	6,1	158,78	26,03	158,78	26,03	\$ 6,10	\$ 158,78	
3	Embankment with compaction	cu.m	913,77	5,63	5.144,53	-	5,63	-	0,00	0,00	0,00	\$ 5,63	\$ -	
4	Backfill	cu.m	8,91	4,97	44,28	850,00	4,97	4.224,50	850,00	4.224,50	850,00	\$ 4,97	\$ 4.224,50	
5	Concrete Type-C ($f_c = 17.5 \text{ MPa}$)	cu.m	248,47	185,91	46.193,06	348,80	185,91	64.845,41	348,80	64.845,41	348,80	\$ 185,91	\$ 64.845,41	
6	Concrete Type-F ($f_c = 12.5 \text{ MPa}$)	cu.m	19,18	171,27	3.284,96	22,04	171,27	3.774,79	34,69	5.941,36	34,69	\$ 171,27	\$ 5.941,36	
7	Form F1 (non exposed surface)	sq.m	321,38	9,72	3.123,81	956,16	9,72	9.293,88	956,16	9.293,88	956,16	\$ 9,72	\$ 9.293,88	
8	Form F2 (exposed surface)	sq.m	275,36	9,72	2.676,50	817,85	9,72	7.949,50	835,77	8.123,73	835,77	\$ 9,72	\$ 8.123,73	
9	Reinforcement bar, deformed	kg	16.283,25	1,61	26.216,03	38.647,04	1,61	62.221,73	38.647,04	62.221,73	38.647,04	\$ 1,61	\$ 62.221,73	
10	Supply and installing Joint Filler	sq.m	321,38	6,9	2.217,52	321,38	6,9	2.217,52	321,38	2.217,52	321,38	\$ 6,90	\$ 2.217,52	
11	Supply and installing Joint Sealant	lin.m	31,43	10,04	315,56	31,43	10,04	315,56	31,43	315,56	31,43	\$ 10,04	\$ 315,56	
12	Supply and installing Dowel Bar, dia. 19 mm, L = 1.20 m	nos	37,00	4,28	158,36	37,00	4,28	158,36	37,00	158,36	37,00	\$ 4,28	\$ 158,36	
13	Supply and installing PVC waterstop, 24 cm width	lin.m	89,18	7,57	675,09	101,00	7,57	764,57	101,00	764,57	101,00	\$ 7,57	\$ 764,57	

	WORKS DESCRIPTION	UNIT	CONTRACT			VARIATION ORDER NO.1			VARIATION ORDER NO 2			Rejultado Verifikasiadn ADN VO.2		
			QTY	UNIT PRICE	TOTAL	QTY	UNIT PRICE	TOTAL	QTY	PRICE (US \$)	QTY	PRICES US\$)	Amount (US\$)	
				(US \$)	(US \$)		(US \$)	(US \$)		(US \$)				
14	Supply and installing Water Level Staff Gauge, w = 0.12 m	lin.m	1,00	5,75	5,75	1,00	5,75	5,75	1,00	5,75	1,00	\$ 5,75	\$ 5,75	
15	Supply and installing steel L-beam 100 x 100 x 10	lin.m	459,54	2,03	932,87	459,54	2,03	932,87	459,54	932,87	459,54	\$ 2,03	\$ 932,87	
16	Supply & Install. Flushing gate B = 1.00 m, h = 2.00 m, H = 3.90 m	nos	2,00	5815,82	11.631,64	2,00	5815,82	11.631,64	2,00	11.631,64	2,00	\$ 5.815,82	\$ 11.631,64	
17	Supply & Install. Regulating gate B = 1.00 m, h = 0.70 m, H = 2.60m	nos	1,00	1240,84	1.240,84	1,00	1240,84	1.240,84	1,00	1.240,84	1,00	\$ 1.240,84	\$ 1.240,84	
TOTAL BILL NO. V					104.390,39			183.955,70		186.296,49				186.296,49
VI. Construction of Right Retaining Wall														
1	Common Excavation	cu.m	2.552,37	4,74	12.098,23	2.552,37	4,74	12.098,23	2.552,37	12.098,23	2.552,37	\$ 4,74	\$ 12.098,23	
2	Rock Excavation	cu.m	850,90	6,10	5.190,49	850,90	6,10	5.190,49	850,90	5.190,49	850,90	\$ 6,10	\$ 5.190,49	
3	Backfill	cu.m	14.979,32	4,97	74.447,22	14.979,32	4,97	74.447,22	14.979,32	74.447,22	14.979,32	\$ 4,97	\$ 74.447,22	
4	Supply and installing weep hole	lin.m	256,00	6,28	1.607,68	256,00	6,28	1.607,68	256,00	1.607,68	256,00	\$ 6,28	\$ 1.607,68	
5	Concrete Type-B (fc = 22.5 MPa)	cu.m	2.053,69	198,46	407.575,32	2.053,69	198,46	407.575,32	2.053,69	407.575,32	2.053,69	\$ 198,46	\$ 407.575,32	
6	Concrete Type-F (fc = 12.5 MPa)	cu.m	203,95	171,27	34.930,52	203,95	171,27	34.930,52	203,95	34.930,52	203,95	\$ 171,27	\$ 34.930,52	
7	Form F1 (non exposed surface)	sq.m	1.585,62	9,72	15.412,23	1.585,62	9,72	15.412,23	1.585,62	15.412,23	1.585,62	\$ 9,72	\$ 15.412,23	
8	Form F2 (exposed surface)	sq.m	812,85	9,72	7.900,90	812,85	9,72	7.900,90	812,85	7.900,90	812,85	\$ 9,72	\$ 7.900,90	
9	Reinforcement bar, deformed	kg	51.639,22	1,61	83.139,14	51.639,22	1,61	83.139,14	51.639,22	83.139,14	51.639,22	\$ 1,61	\$ 83.139,14	
10	Reinforcement bar, plain	kg	699,17	1,61	1.125,66	699,17	1,61	1.125,66	699,17	1.125,66	699,17	\$ 1,61	\$ 1.125,66	
11	Supply and installing hand rail, GSP pipe dia. 2.5"	lin.m	277,80	37,66	10.461,95	277,80	37,66	10.461,95	277,80	10.461,95	277,80	\$ 37,66	\$ 10.461,95	
12	Supply and installing Dowel Bar, dia. 19 mm, L = 1.20 m	nos	116,00	4,28	496,48	116,00	4,28	496,48	116,00	496,48	116,00	\$ 4,28	\$ 496,48	
13	Supply and installing PVC waterstop, 24 cm width	lin.m	129,52	7,57	980,47	129,52	7,57	980,47	129,52	980,47	129,52	\$ 7,57	\$ 980,47	
14	Supply and installing Joint Filler	sq.m	265,81	6,9	1.834,09	265,81	6,9	1.834,09	265,81	1.834,09	265,81	\$ 6,90	\$ 1.834,09	
15	Supply and installing Joint Sealant	lin.m	129,52	10,04	1.300,38	129,52	10,04	1.300,38	129,52	1.300,38	129,52	\$ 10,04	\$ 1.300,38	
16	Gabion box, size 2.0 x 1.0 x 0.5 m	cu.m	-	179,34	-		179,34		50,00	8.967,00	50,00	\$ 179,34	\$ 8.967,00	
TOTAL BILL NO. VI					658.500,76			658.500,76		667.467,76				667.467,76
VII. Construction of Left Retaining Wall														
1	Common Excavation	cu.m	2.232,70	4,74	10.583,00	4.841,55	4,74	22.948,95	4.841,55	22.948,95	4.841,55	\$ 4,74	\$ 22.948,95	
2	Rock Excavation	cu.m	744,33	6,10	4.540,41	450,00	6,10	2.745,00	450,00	2.745,00	450,00	\$ 6,10	\$ 2.745,00	
3	Backfill	cu.m	13.103,25	4,97	65.123,15	3.000,00	4,97	14.910,00	4.293,63	21.339,33	4.293,63	\$ 4,97	\$ 21.339,33	
4	Supply and installing weep hole	lin.m	224,00	6,28	1.406,72	203,30	6,28	1.276,72	203,30	1.276,72	203,30	\$ 6,28	\$ 1.276,72	
5	Concrete Type-B (fc = 22.5 MPa)	cu.m	1.776,61	198,46	352.586,02	1.929,83	198,46	382.994,06	1.929,83	382.994,06	1.929,83	\$ 198,46	\$ 382.994,06	

WORKS DESCRIPTION	UNIT	CONTRACT			VARIATION ORDER NO.1			VARIATION ORDER NO 2			Rejultado Verifikasiadn ADN VO.2		
		QTY	UNIT PRICE	TOTAL	QTY	UNIT PRICE	TOTAL	QTY	PRICE (US \$)	QTY	PRICES US\$)	Amount (US\$)	
			(US \$)	(US \$)		(US \$)	(US \$)		(US \$)		(US \$)		
6	Concrete Type-F ($f'_c = 12.5$ MPa)	cu.m	198,27	171,27	33.957,70	90,89	171,27	15.567,06	90,89	15.567,06	90,89	\$ 171,27	\$ 15.567,06
7	Form F1 (non exposed surface)	sq.m	1.387,03	9,72	13.481,93	1.520,43	9,72	14.778,58	1.520,43	14.778,58	1.520,43	\$ 9,72	\$ 14.778,58
8	Form F2 (exposed surface)	sq.m	711,05	9,72	6.911,41	928,00	9,72	9.020,16	928,00	9.020,16	928,00	\$ 9,72	\$ 9.020,16
9	Reinforcement bar, deformed	kg	45.171,70	1,61	72.726,44	59.940,08	1,61	96.503,53	59.940,08	96.503,53	59.940,08	\$ 1,61	\$ 96.503,53
10	Reinforcement bar, plain	kg	611,61	1,61	984,69	611,61	1,61	984,69	611,61	984,69	611,61	\$ 1,61	\$ 984,69
11	Supply and installing hand rail, GSP pipe dia. 2,5"	lin.m	243,00	37,66	9.151,38	243,00	37,66	9.151,38	243,00	9.151,38	243,00	\$ 37,66	\$ 9.151,38
12	Supply and installing Dowel Bar, dia. 19 mm, L = 1.20 m	nos	102,00	4,28	436,56	195,00	4,28	834,60	195,00	834,60	195,00	\$ 4,28	\$ 834,60
13	Supply and installing PVC waterstop, 24 cm width	lin.m	113,30	7,57	857,68	223,94	7,57	1.695,23	223,94	1.695,23	223,94	\$ 7,57	\$ 1.695,23
14	Supply and installing Joint Filler	sq.m	232,51	6,9	1.604,32	87,43	6,9	603,27	87,43	603,27	87,43	\$ 6,90	\$ 603,27
15	Supply and installing Joint Sealant	lin.m	113,30	10,04	1.137,53	113,30	10,04	1.137,53	113,30	1.137,53	113,30	\$ 10,04	\$ 1.137,53
16	Gabion box, size 2.0 x 1.0 x 0.5 m	cu.m	-	179,34	-	-	179,34	-	50,00	8.967,00	50,00	\$ 179,34	\$ 8.967,00
TOTAL BILL NO. VII					575.488,95			575.150,76		590.547,09			590.547,09
VIII. Right Galata Main Canal Works													
8,1	Pipe works (L = 4128.5M)												
1	Common Excavation	cu.m	10.439,37	5,21	54.389,12	103.971,44	5,21	541.691,20	124.585,23	649.089,05	124.585,23	\$ 5,21	\$ 649.089,05
2	Embankment with compaction	cu.m	154,48	5,63	869,72	8.443,64	5,63	47.537,69	9.481,39	53.380,21	9.481,39	\$ 5,63	\$ 53.380,21
3	Backfill	cu.m	9.547,54	4,97	47.451,27	27.962,14	4,97	138.971,83	27.962,14	138.971,83	27.962,14	\$ 4,97	\$ 138.971,83
4	Supply and installing HDPE Pipe PE100 PN12.5, OD 710 mm	lin.m	3.366,50	352,76	1.187.566,54	4.128,50	352,76	1.456.369,66	4.128,50	1.456.369,66	4.128,50	\$ 352,76	\$ 1.456.369,66
TOTAL BILL NO.8.1					1.290.276,65			2.184.570,38		2.297.810,75			2.297.810,75
8,2	Canal works (L = 1664 M)												
1	Stripping of top soil	sq.m	4.620,23	0,42	1.940,50	12.257,03	0,42	5.147,95	12.257,03	5.147,95	12.257,03	\$ 0,42	\$ 5.147,95
2	Common excavation	cu.m	34.030,13	4,74	161.302,82	22.822,96	4,74	108.180,83	23.936,03	113.456,78	23.936,03	\$ 4,74	\$ 113.456,78
3	Embankment with compaction	cu.m	3.402,37	5,63	19.155,34	30.963,87	5,63	174.326,59	30.936,35	174.171,66	30.936,35	\$ 5,63	\$ 174.171,66
4	Sandy gravel embankment with compaction	cu.m	727,38	5,63	4.095,15	727,38	5,63	4.095,15	498,99	2.809,31	498,99	\$ 5,63	\$ 2.809,31
5	Stone masonry 1 : 3	cu.m	4.558,23	90,91	414.388,69	-	90,91	-	0,00	0,00	0,00	\$ 90,91	\$ -
6	Plastering 1:3	sq.m	4.849,18	5,67	27.494,85	-	5,67	-	0,00	0,00	0,00	\$ 5,67	\$ -
7	Pointing 1:2	sq.m	6.449,40	3,65	23.540,31	-	3,65	-	0,00	0,00	0,00	\$ 3,65	\$ -
8	Gabion box, size 2.0 x 1.0 x 0.5 m	cu.m	2.146,38	179,34	384.931,79	2.146,38	179,34	384.931,79	3.550,00	636.657,00	3.550,00	\$ 179,34	\$ 636.657,00
9	Cyclope with FC 17.5 mpa (60/40)	cu.m	0,00	167,14	-	1900,22	167,14	317.593,32	1.900,22	317.593,32	1.900,22	\$ 167,14	\$ 317.593,32

WORKS DESCRIPTION	UNIT	CONTRACT			VARIATION ORDER NO.1			VARIATION ORDER NO 2		Rejultado Verifikasiadn ADN VO.2		
		QTY	UNIT PRICE	TOTAL	QTY	UNIT PRICE	TOTAL	QTY	PRICE (US \$)	QTY	PRICES US\$)	Amount (US\$)
			(US \$)	(US \$)		(US \$)	(US \$)		(US \$)		(US \$)	
10	Beam with concrete Type C											
	Concrete Type C (fc=17.5 MPa)	cu.m	-	185,91	-	-	185,91	-	4,57	849,70	4,57	\$ 185,91 \$ 849,70
	Reinforcement bar, plain	kg	-	1,61	-	-	1,61	-	1.167,36	1.879,46	1.167,36	\$ 1,61 \$ 1.879,46
	From work	sq.m	-	9,72	-	-	9,72	-	118,80	1.154,74	118,80	\$ 9,72 \$ 1.154,74
	TOTAL BILL NO.8.2			1.036.849,44			994.275,63		1.253.719,92			1.253.719,92
8,3	Structure works	12			Nos							
	a. Offtake Structures	3			Nos			3	Nos			
1	Common Excavation	cu.m	26,73	4,74	126,70	26,73	4,74	126,70	236,06	1.118,93	236,06	\$ 4,74 \$ 1.118,93
2	Embankment with compaction	cu.m	125,88	5,63	708,70	125,88	5,63	708,70	61,64	347,01	61,64	\$ 5,63 \$ 347,01
3	Sandy gravel embankment with compaction	cu.m	13,05	5,63	73,47	13,05	5,63	73,47	0,00	0,00	0,00	\$ 5,63 \$ -
4	Backfill	cu.m	-	4,97	-	-	4,97	-	134,73	669,59	134,73	\$ 4,97 \$ 669,59
5	Stone masonry 1 : 3	cu.m	133,50	90,91	12.136,49	133,50	90,91	12.136,49	0,00	0,00	0,00	\$ 90,91 \$ -
6	Plastering 1:3	sq.m	169,82	5,67	962,88	169,82	5,67	962,88	0,00	0,00	0,00	\$ 5,67 \$ -
7	Pointing 1:2	sq.m	166,85	3,65	609,00	166,85	3,65	609,00	0,00	0,00	0,00	\$ 3,65 \$ -
8	Concrete Type-C (f'c = 17.5 MPa)	cu.m	2,78	185,91	516,83	2,78	185,91	516,83	64,37	11.966,93	64,37	\$ 185,91 \$ 11.966,93
9	Form F2 (exposed surface)	sq.m	15,81	9,72	153,67	15,81	9,72	153,67	246,54	2.396,37	246,54	\$ 9,72 \$ 2.396,37
10	Reinforcement bar, plain	kg	699,58	1,61	1.126,32	699,58	1,61	1.126,32	507,77	817,51	507,77	\$ 1,61 \$ 817,51
11	Supply and installing Water Level Staff Gauge, w = 0.12 m	lin.m	6,55	5,75	37,66	6,55	5,75	37,66	12,45	71,59	12,45	\$ 5,75 \$ 71,59
12	Supplying and installing:								0,00			
	Slide gate b = 0.50 h = 0.40 H =2.20	nos	1,00	423,7	423,70	1,00	423,7	423,70	1,00	423,70	1,00	\$ 423,70 \$ 423,70
	Slide gate b = 0.50 h = 0.45 H = 2.20	nos	1,00	469,1	469,10	1,00	469,1	469,10	1,00	469,10	1,00	\$ 469,10 \$ 469,10
	Slide gate b = 0.50 h = 0.50 H = 2.20	nos	1,00	484,23	484,23	1,00	484,23	484,23	1,00	484,23	1,00	\$ 484,23 \$ 484,23
	Slide gate b = 0.50 h = 1.10 H = 1.90	nos	1,00	817,14	817,14	1,00	817,14	817,14	1,00	817,14	1,00	\$ 817,14 \$ 817,14
	Slide gate b = 0.50 h = 1.15 H = 1.95	nos	1,00	877,67	877,67	1,00	877,67	877,67	1,00	877,67	1,00	\$ 877,67 \$ 877,67
	Slide gate b = 0.50 h = 1.30 H = 2.10	nos	1,00	907,93	907,93	1,00	907,93	907,93	1,00	907,93	1,00	\$ 907,93 \$ 907,93
	TOTAL BILL OFFTAKE STRUCTURES			20.431,50			20.431,50		21.367,70			21.367,70
	b. Simple Offtake Structures	2			Nos			3	Nos			
1	Common Excavation	cu.m	55,94	4,74	265,16	55,94	4,74	265,16	166,54	789,38	166,54	\$ 4,74 \$ 789,38
2	Embankment with compaction	cu.m	0,15	5,63	0,84	0,15	5,63	0,84	69,93	393,72	69,93	\$ 5,63 \$ 393,72

	WORKS DESCRIPTION	UNIT	CONTRACT			VARIATION ORDER NO.1			VARIATION ORDER NO 2		Rejultado Verifikasiadun ADN VO.2		
			QTY	UNIT PRICE	TOTAL	QTY	UNIT PRICE	TOTAL	QTY	PRICE (US \$)	QTY	PRICES US\$)	Amount (US\$)
				(US \$)	(US \$)		(US \$)	(US \$)		(US \$)		(US \$)	
3	Backfill	cu.m		4,97	-	-	4,97	-	125,14	621,97	125,14	\$ 4,97	\$ 621,97
4	Stone masonry 1 : 3	cu.m	65,63	90,91	5.966,42	65,6	90,91	5966,4	0,00	0,00	0,00	\$ 90,91	\$ -
5	Plastering 1:3	sq.m	95,36	5,67	540,69	95,36	5,67	540,69	0,00	0,00	0,00	\$ 5,67	\$ -
6	Pointing 1:2	sq.m	111,5	3,65	406,83	111,46	3,65	406,83	0,00	0,00	0,00	\$ 3,65	\$ -
7	Concrete Type-C ($f_c = 17.5 \text{ MPa}$)	cu.m		185,91	-	-	185,91	-	21,02	3.907,27	21,02	\$ 185,91	\$ 3.907,27
8	Form F2 (exposed surface)	sq.m		9,72	-	-	9,72	-	77,00	748,44	77,00	\$ 9,72	\$ 748,44
9	Reinforcement bar, plain	kg		1,61	-	-	1,61	-	272,95	439,45	272,95	\$ 1,61	\$ 439,45
10	Supplying and installing PVC pipe type AW dia. 4 inch	lin.m	12,60	7,53	94,88	12,60	7,53	94,88	0,00	0,00	0,00	\$ 7,53	\$ -
11	Supplying and installing:				-				0,00				
	Slide gate b = 0.30 h = 0.40 H = 1.20	nos		332,91	-	-	332,91	-	4,00	1.331,64	4,00	\$ 332,91	\$ 1.331,64
	Slide gate b = 0.30 h = 1.10 H = 1.90	nos	1,00	484,23	484,23	1,00	484,23	484,23	0,00	0,00	0,00	\$ 484,23	\$ -
	Slide gate b = 0.30 h = 1.15 H = 1.95	nos	1,00	499,36	499,36	1,00	499,36	499,36	0,00	0,00	0,00	\$ 499,36	\$ -
	Slide gate b = 0.4 h = 0.5 H = 1.30	nos	-	378,31	-	-	378,31	-	2,00	756,62	2,00	\$ 378,31	\$ 756,62
	TOTAL BILL OF SIMPLE OFFTAKE STRUCTURES			8.258,41			8.258,41			8.988,48			8.988,48
	c. Aqueduct Structures	0			Nos			1	Nos				
1	Common Excavation	cu.m	-	4,74	-	-	4,74	-	226,24	1.072,37	226,24	\$ 4,74	\$ 1.072,37
2	Embankment with compaction	cu.m	-	5,63	-	-	5,63	-	588,00	3.310,45	588,00	\$ 5,63	\$ 3.310,45
3	Backfill	cu.m	-	4,97	-	-	4,97	-	218,34	1.085,12	218,34	\$ 4,97	\$ 1.085,12
4	Stone masonry 1 : 3	cu.m	-	90,91	-	-	90,91	-	169,07	15.370,15	169,07	\$ 90,91	\$ 15.370,15
5	Plastering 1:3	sg.m	-	5,67	-	-	5,67	-	164,56	933,06	164,56	\$ 5,67	\$ 933,06
6	Concrete Type-B ($f_c = 22.5 \text{ MPa}$)	cu.m	-	198,46	-	-	198,46	-	6,40	1.270,03	6,40	\$ 198,46	\$ 1.270,03
7	Form F2 (exposed surface)	sg.m	-	9,72	-	-	9,72	-	38,29	372,13	38,29	\$ 9,72	\$ 372,13
8	Reinforcement bar, deformed	kg	-	1,61	-	-	1,61	-	3.622,36	5.832,00	3.622,36	\$ 1,61	\$ 5.832,00
9	Supply and installing hand rail, GSP pipe dia. 2.5"	lin.m	-	37,66	-	-	37,66	-	24,20	911,37	24,20	\$ 37,66	\$ 911,37
10	Supply and installing PVC waterstop, 24 cm width	lin.m	-	7,57	-	-	7,57	-	2,17	16,43	2,17	\$ 7,57	\$ 16,43
	TOTAL BILL OF SIMPLE OFFTAKE STRUCTURES				Nos			0	Nos				30.173,12
	c. Waste Way	3			Nos			0	Nos				
1	Common Excavation	cu.m	2.413,83	4,74	11.441,55	2.413,83	4,74	11.441,55	0,00	0,00	0,00	\$ 4,74	\$ -
2	Embankment with compaction	cu.m	186,57	5,63	1.050,39	186,57	5,63	1.050,39	0,00	0,00	0,00	\$ 5,63	\$ -

	WORKS DESCRIPTION	UNIT	CONTRACT			VARIATION ORDER NO.1			VARIATION ORDER NO 2			Rejultado Verifikasiadn ADN VO.2		
			QTY	UNIT PRICE	TOTAL	QTY	UNIT PRICE	TOTAL	QTY	PRICE (US \$)		QTY	PRICES US\$)	Amount (US\$)
				(US \$)	(US \$)		(US \$)	(US \$)		(US \$)			(US \$)	
3	Backfill	cu.m	123,49	4,97	613,75	123,49	4,97	613,75	0,00	0,00		0,00	\$ 4,97	\$ -
4	Sandy gravel embankment with compaction	cu.m	8,53	5,63	48,02	8,53	5,63	48,02	0,00	0,00		0,00	\$ 5,63	\$ -
5	Stone masonry 1 : 3	cu.m	326,90	90,91	29.718,48	326,90	90,91	29.718,48	0,00	0,00		0,00	\$ 90,91	\$ -
6	Plastering 1:3	sq.m	201,72	5,67	1.143,75	201,72	5,67	1.143,75	0,00	0,00		0,00	\$ 5,67	\$ -
7	Pointing 1:2	sq.m	502,73	3,65	1.834,96	502,73	3,65	1.834,96	0,00	0,00		0,00	\$ 3,65	\$ -
8	Supply & installation of gabion box, size 2.0 x 1.0 x 0.5 m	cu.m	33,00	179,34	5.918,22	33,00	179,34	5.918,22	0,00	0,00		0,00	\$ 179,34	\$ -
9	Concrete Type-B ($f'_c = 22.5$ MPa)	cu.m	346,68	198,46	68.802,11	346,68	198,46	68.802,11	0,00	0,00		0,00	\$ 198,46	\$ -
10	Concrete Type-C ($f'_c = 17.5$ MPa)	cu.m	1,20	185,91	223,09	1,20	185,91	223,09	0,00	0,00		0,00	\$ 185,91	\$ -
11	Concrete Type-E ($f'_c=12.5$ Mpa)	cu.m	15,12	171,27	2.589,60	15,12	171,27	2.589,60	0,00	0,00		0,00	\$ 171,27	\$ -
12	Form F2 (exposed surface)	sq.m	273,20	9,72	2.655,50	273,20	9,72	2.655,50	0,00	0,00		0,00	\$ 9,72	\$ -
13	Reinforcement bar, deformed	kg	7.025,70	1,61	11.311,38	7.025,70	1,61	11.311,38	0,00	0,00		0,00	\$ 1,61	\$ -
	TOTAL BILL OF WASTE WAY STRUCTURE				137.350,82			137.350,82		0,00				0,00
	d. Cross Drain Structures	4			Nos			13	Nos					
1	Common Excavation	cu.m	1.494,62	4,74	7.084,50	1.494,62	4,74	7.084,50	2.386,62	11.312,56		2.386,62	\$ 4,74	\$ 11.312,56
2	Embankment with compaction	cu.m	296,27	5,63	1.668,00	296,27	5,63	1.668,00	2.262,70	12.739,00		2.262,70	\$ 5,63	\$ 12.739,00
3	Backfill	cu.m	84,84	4,97	421,65	84,84	4,97	421,65	177,81	883,71		177,81	\$ 4,97	\$ 883,71
4	Sandy gravel embankment with compaction	cu.m	10,58	5,63	59,57	10,58	5,63	59,57	0,00	0,00		0,00	\$ 5,63	\$ -
5	Stone masonry 1 : 3	cu.m	342,74	90,91	31.158,49	342,74	90,91	31.158,49	14,10	1.281,83		14,10	\$ 90,91	\$ 1.281,83
6	Plastering 1:3	sq.m	192,97	5,67	1.094,14	192,97	5,67	1.094,14	79,11	448,55		79,11	\$ 5,67	\$ 448,55
7	Pointing 1:2	sq.m	554,25	3,65	2.023,01	554,25	3,65	2.023,01	0,00	0,00		0,00	\$ 3,65	\$ -
8	Supply & installation of gabion box, size 2.0 x 1.0 x 0.5 m	cu.m	272,00	179,34	48.780,48	272,00	179,34	48.780,48	468,00	83.931,12		468,00	\$ 179,34	\$ 83.931,12
9	Concrete Type-B ($f'_c = 22.5$ MPa)	cu.m	480,64	198,46	95.387,81	480,64	198,46	95.387,81	0,00	0,00		0,00	\$ 198,46	\$ -
10	Concrete Type-E ($f'_c=12.5$ Mpa)	cu.m	12,77	171,27	2.187,12	12,77	171,27	2.187,12	0,00	0,00		0,00	\$ 171,27	\$ -
11	Concrete Type-C ($f'_c = 17.5$ MPa)	cu.m		185,91	-	-	185,91	-	192,51	35.788,79		192,51	\$ 185,91	\$ 35.788,79
12	Form F2 (exposed surface)	sq.m	358,35	9,72	3.483,16	358,35	9,72	3.483,16	191,06	1.857,10		191,06	\$ 9,72	\$ 1.857,10
13	Reinforcement bar, deformed	kg	9.639,65	1,61	15.519,84	9.639,65	1,61	15.519,84	3.678,48	5.922,35		3.678,48	\$ 1,61	\$ 5.922,35
14	Concrete pipe dia 1.12m	lin.m	-	295,47	-	-	295,47	-	180,00	53.184,60		180,00	\$ 295,47	\$ 53.184,60
	TOTAL BILL OF CROSS DRAIN STRUCTURES				208.867,78			208.867,78		207.349,61				207.349,61
	TOTAL BILL NO.8.3				374.908,51			374.908,51		267.878,91				267.878,91

WORKS DESCRIPTION	UNIT	CONTRACT			VARIATION ORDER NO.1			VARIATION ORDER NO 2		Rejultado Verifikasiadn ADN VO.2			
		QTY	UNIT PRICE	TOTAL	QTY	UNIT PRICE	TOTAL	QTY	PRICE (US \$)	QTY	PRICES US\$)	Amount (US\$)	
			(US \$)	(US \$)		(US \$)	(US \$)		(US \$)		(US \$)		
TOTAL BILL NO. VIII				2.702.034,60			3.553.754,51		3.819.409,57			3.819.409,57	
IX. Left Galata Main Canal Works													
9,1	Pipe works (L = 2366.61 M)												
1	Common Excavation	cu.m	4.480,88	5,21	23.345,38	4.480,88	5,21	23.345,38	54.269,77	282.745,51	54.269,77	\$ 5,21 \$ 282.745,51	
2	Embankment with compaction	cu.m	492,42	5,63	2.772,32	492,42	5,63	2.772,32	6.153,36	34.643,41	6.153,36	\$ 5,63 \$ 34.643,41	
3	Backfill	cu.m	3.980,31	4,97	19.782,14	3.980,31	4,97	19.782,14	15.000,00	74.550,00	15.000,00	\$ 4,97 \$ 74.550,00	
4	Supply and installing HDPE Pipe PE100 PN12,5, OD 560 mm	lin.m	1.427,20	219,53	313.313,22	1.427,20	219,53	313.313,22	2.178,00	478.136,34	2.178,00	\$ 219,53 \$ 478.136,34	
TOTAL BILL NO.9.1				359.213,07			359.213,07		870.075,26			870.075,26	
9,2	Canal works (L = 2,366.34M)												
1	Stripping of top soil	sq.m	4.698,35	0,42	1.973,31	405,70	0,42	170,39	405,70	170,39	405,70	\$ 0,42 \$ 170,39	
2	Common excavation	cu.m	34.605,48	4,74	164.029,98	48.576,34	4,74	230.251,85	55.201,36	261.654,46	55.201,36	\$ 4,74 \$ 261.654,46	
3	Embankment with compaction	cu.m	3.459,89	5,63	19.479,18	7.730,84	5,63	43.524,63	10.648,78	59.952,60	10.648,78	\$ 5,63 \$ 59.952,60	
4	Sandy gravel embankment with compaction	cu.m	739,68	5,63	4.164,40	1.419,60	5,63	7.992,35	670,90	3.777,18	670,90	\$ 5,63 \$ 3.777,18	
5	Stone masonry 1 : 3	cu.m	4.635,30	90,91	421.395,12	-	90,91	-	0,00	0,00	0,00	\$ 90,91 \$ -	
6	Plastering 1:3	sq.m	4.931,17	5,67	27.959,73	-	5,67	-	0,00	0,00	0,00	\$ 5,67 \$ -	
7	Pointing 1:2	sq.m	6.558,44	3,65	23.938,31	-	3,65	-	0,00	0,00	0,00	\$ 3,65 \$ -	
8	Gabion box, size 2.0 x 1.0 x 0.5 m	cu.m	2.182,67	179,34	391.440,04	2.182,67	179,34	391.440,04	2.182,67	391.440,04	2.182,67	\$ 179,34 \$ 391.440,04	
9	Cyclope with FC 17.5 mpa (60/40)	cu.m	0,00	167,14	0,00	2617,47	167,14	437470,91	2.617,47	437.470,91	2.617,47	\$ 167,14 \$ 437.470,91	
10	Slab for canal in landslide area								0,00				
	Concrete Type-C (f'c = 17.5 MPa)	cu.m		185,91	-	-	185,91	-	201,96	37.546,38	201,96	\$ 185,91 \$ 37.546,38	
	Reinforcement bar	kg	-	1,61	-	-	1,61	-	10.066,84	16.207,61	10.066,84	\$ 1,61 \$ 16.207,61	
10	Beam with concrete Type C								0,00				
	Concrete Type C (fc=17.5 MPa)	cu.m	-	185,91	-	-	185,91	-	12,59	2.340,37	12,59	\$ 185,91 \$ 2.340,37	
	Reinforcement bar, plain	kg	-	1,61	-	-	1,61	-	2.531,55	4.075,80	2.531,55	\$ 1,61 \$ 4.075,80	
	From work	sq.m	-	9,72	-	-	9,72	-	335,70	3.263,00	335,70	\$ 9,72 \$ 3.263,00	
TOTAL BILL NO.9.2				1.054.380,06			1.110.850,17		1.217.898,76			1.217.898,76	
9,3	Structure works	16	NOS										
	a. Offtake Structures	4	Nos										
1	Common Excavation	cu.m	0,00	4,74	0,00				301,79	1.430,51	301,79	\$ 4,74 \$ 1.430,51	

	WORKS DESCRIPTION	UNIT	CONTRACT			VARIATION ORDER NO.1			VARIATION ORDER NO 2		Rejultado Verifikasiadun ADN VO.2		
			QTY	UNIT PRICE	TOTAL	QTY	UNIT PRICE	TOTAL	QTY	PRICE (US \$)	QTY	PRICES US\$)	Amount (US\$)
				(US \$)	(US \$)		(US \$)	(US \$)		(US \$)		(US \$)	
2	Embankment with compaction	cu.m	0,00	5,63	0,00				98,54	554,77	98,54	\$ 5,63	\$ 554,77
3	Backfill	cu.m	0,00	4,97	0,00				179,64	892,79	179,64	\$ 4,97	\$ 892,79
5	Concrete Type C ($f_c' = 17.5 \text{ MPa}$)	cu.m	0,00	185,91	0,00				85,83	15.955,91	85,83	\$ 185,91	\$ 15.955,91
6	Form F2 (exposed surface)	sg.m	0,00	9,72	0,00				184,14	1.789,87	184,14	\$ 9,72	\$ 1.789,87
7	Reinforcement bar	kg	0,00	1,61	0,00				677,03	1.090,02	677,03	\$ 1,61	\$ 1.090,02
8	Supply and installing Water Level Staff Gauge, $w = 0.12 \text{ m}$	lin.m	0,00	5,75	0,00				18,85	108,39	18,85	\$ 5,75	\$ 108,39
9	Supplying and installing:								0,00	-	0,00		
	Slide gate $b = 0.40 \text{ h} = 0.50 \text{ H} = 1.30$	nos	0,00	378,31	0,00				4,00	1.513,24	4,00	\$ 378,31	\$ 1.513,24
	Slide gate $b = 0.50 \text{ h} = 0.40 \text{ H} = 1.50$	nos	0,00	393,44	0,00				4,00	1.573,76	4,00	\$ 393,44	\$ 1.573,76
	TOTAL BILL OFFTAKE STRUCTURES								24.909,25				\$ 24.909,25
	b. Simple Offtake Structures	3	Nos										
1	Common Excavation	cu.m	0,00	4,74	0,00				281,21	1.332,95	281,21	\$ 4,74	\$ 1.332,95
2	Embankment with compaction	cu.m	0,00	5,63	0,00				114,01	641,85	114,01	\$ 5,63	\$ 641,85
3	Backfill	cu.m	0,00	4,97	0,00				178,29	886,11	178,29	\$ 4,97	\$ 886,11
6	Concrete Type C ($f_c' = 17.5 \text{ MPa}$)	cu.m	0,00	185,91	0,00				31,53	5.860,91	31,53	\$ 185,91	\$ 5.860,91
7	Form F2 (exposed surface)	sg.m		9,72	0,00				120,38	1.170,09	120,38	\$ 9,72	\$ 1.170,09
8	Reinforcement bar	kg	0,00	1,61	0,00				409,43	659,18	409,43	\$ 1,61	\$ 659,18
9	Supplying and installing:				0,00								
	Slide gate $b = 0.30 \text{ h} = 0.40 \text{ H} = 1.20$	nos	0,00	332,91	0,00				6,00	1.997,46	6,00	\$ 332,91	\$ 1.997,46
	Slide gate $b = 0.40 \text{ h} = 0.50 \text{ H} = 1.30$	nos	0,00	378,31	0,00				3,00	1.134,93	3,00	\$ 378,31	\$ 1.134,93
	TOTAL BILL OF SIMPLE OFFTAKE STRUCTURES								13.683,49				\$ 13.683,49
	c. Aqueduct Structure	2	Nos										
1	Common Excavation	cu.m	0,00	4,74	0,00				925,72	4.387,93	925,72	\$ 4,74	\$ 4.387,93
2	Embankment with compaction	cu.m	0,00	5,63	0,00				1.591,65	8.960,99	1.591,65	\$ 5,63	\$ 8.960,99
3	Backfill	cu.m	0,00	4,97	0,00				1.082,07	5.377,91	1.082,07	\$ 4,97	\$ 5.377,91
4	Stone masonry 1 : 3	cu.m	0,00	90,91	0,00				520,70	47.337,09	520,70	\$ 90,91	\$ 47.337,09
5	Plastering 1:3	sg.m	0,00	5,67	0,00				441,66	2.504,21	441,66	\$ 5,67	\$ 2.504,21
6	Concrete Type-B ($f_c = 22.5 \text{ MPa}$)	cu.m	0,00	198,46	0,00				70,98	14.085,79	70,98	\$ 198,46	\$ 14.085,79
7	Concrete Type-F ($f_c' = 12.5 \text{ Mpa}$)	cu.m	0,00	171,27	0,00				2,59	443,93	2,59	\$ 171,27	\$ 443,93

	WORKS DESCRIPTION	UNIT	CONTRACT			VARIATION ORDER NO.1			VARIATION ORDER NO 2			Rejultado Verifikasiadn ADN VO.2		
			QTY	UNIT PRICE	TOTAL	QTY	UNIT PRICE	TOTAL	QTY	PRICE (US \$)	QTY	PRICES US\$)	Amount (US\$)	
				(US \$)	(US \$)		(US \$)	(US \$)		(US \$)		(US \$)		
8	Form F1 (non exposed surface)	sg.m	0,00	9,72	0,00				28,00	272,16	28,00	\$ 9,72	\$ 272,16	
9	Form F2 (exposed surface)	sg.m	0,00	9,72	0,00				292,05	2.838,68	292,05	\$ 9,72	\$ 2.838,68	
11	Reinforcement bar	kg	0,00	1,61	0,00				15.602,54	25.120,09	15.602,54	\$ 1,61	\$ 25.120,09	
12	Supply and installing hand rail, GSP pipe dia. 2.5"	lin.m	0,00	37,66	0,00				121,00	4.556,86	121,00	\$ 37,66	\$ 4.556,86	
13	Supply and installing PVC waterstop, 24 cm width	lin.m	0,00	7,57	0,00				10,85	82,13	10,85	\$ 7,57	\$ 82,13	
	TOTAL BILL OF AQUADUCT STRUCTURES								115.967,77				115.967,77	
	d. Cross Drain Structures		5	Nos										
1	Common Excavation	cu.m	0,00	4,74	0,00				1.439,87	6.824,98	1.439,87	\$ 4,74	\$ 6.824,98	
2	Embankment with compaction	cu.m	0,00	5,63	0,00				1.429,13	8.046,02	1.429,13	\$ 5,63	\$ 8.046,02	
3	Backfill	cu.m	0,00	4,97	0,00				177,81	883,71	177,81	\$ 4,97	\$ 883,71	
4	Concrete Type-C (fc'=17.5 Mpa)	cu.m	0,00	185,91	0,00				86,40	16.062,62	86,40	\$ 185,91	\$ 16.062,62	
5	Form F2 (exposed surface)	sg.m	0,00	9,72	0,00				121,35	1.179,52	121,35	\$ 9,72	\$ 1.179,52	
6	Concrete pipe dia 1.12m	lin.m	0,00	295,47	0,00				120,00	35.456,40	120,00	\$ 295,47	\$ 35.456,40	
7	Reinforcement bar	kg	0,00	1,61	0,00				2.452,32	3.948,24	2.452,32	\$ 1,61	\$ 3.948,24	
8	Stone masonry 1 : 3	cu.m	0,00	90,91	0,00				17,63	1.602,29	17,63	\$ 90,91	\$ 1.602,29	
9	Plastering 1:3	sq.m	0,00	5,67	0,00				39,56	224,28	39,56	\$ 5,67	\$ 224,28	
10	Gabion box, size 2.0 x 1.0 x 0.5 m	cu.m	0,00	179,34	0,00				186,00	33.357,24	186,00	\$ 179,34	\$ 33.357,24	
	TOTAL BILL OF CROSS DRAIN STRUCTURE								107.585,29				107.585,29	
	TOTAL BILL NO.9.3								262.145,80				262.145,80	
	TOTAL BILL NO. IX				1.413.593,13			1.470.063,24	-	2.350.119,82			2.350.119,82	
	X. Galata Secondary Canal Works													
10,1	Canal works (L = 7,502 M)													
1	Stripping of top soil	sq.m	12.543,60	0,42	5.268,31	12.543,60	0,42	5.268,31	12.543,60	5.268,31	12.543,60	\$ 0,42	\$ 5.268,31	
2	Common Excavation	cu.m	84.128,95	4,74	398.771,22	86.451,36	4,74	409.779,43	155.293,32	736.090,32	155.293,32	\$ 4,74	\$ 736.090,32	
3	Embankment with compaction	cu.m	6.061,87	5,63	34.128,33	6.061,87	5,63	34.128,33	34.309,25	193.161,10	34.309,25	\$ 5,63	\$ 193.161,10	
4	Sandy gravel embankment with compaction	cu.m	1.028,38	5,63	5.789,78	1.028,38	5,63	5.789,78	1.036,78	5.837,05	1.036,78	\$ 5,63	\$ 5.837,05	
5	Stone masonry 1 : 3	cu.m	7.989,50	90,91	726.325,45	-	90,91	-	0,00	0,00	0,00	\$ 90,91	\$ -	
6	Plastering 1:3	sq.m	9.778,75	5,67	55.445,51	-	5,67	-	0,00	0,00	0,00	\$ 5,67	\$ -	
7	Pointing 1:2	sq.m	11.006,66	3,65	40.174,31	-	3,65	-	0,00	0,00	0,00	\$ 3,65	\$ -	

WORKS DESCRIPTION	UNIT	CONTRACT			VARIATION ORDER NO.1			VARIATION ORDER NO 2			Rejultado Verifikasiadn ADN VO.2		
		QTY	UNIT PRICE	TOTAL	QTY	UNIT PRICE	TOTAL	QTY	PRICE (US \$)	QTY	PRICES US\$	Amount (US\$)	
			(US \$)	(US \$)		(US \$)	(US \$)						
8 Cyclope with FC 17.5 mpa (60/40)	cu.m	0,00	167,14	0,00	5690,74	167,14	951.122,51	5.068,00	847.040,30	5.068,00	\$ 167,14	\$ 847.040,30	
9 Slab for canal in landslide area													
Concrete Type-C ($f_c = 17.5 \text{ MPa}$)	cu.m		185,91	-	-	185,91	-	303,84	56.486,89	303,84	\$ 185,91	\$ 56.486,89	
Reinforcement bar	kg	-	1,61	-	-	1,61	-	14.786,23	23.805,83	14.786,23	\$ 1,61	\$ 23.805,83	
10 Beam with concrete Type C													
Concrete Type C ($f_c=17.5 \text{ MPa}$)	cu.m	-	185,91	-	-	185,91	-	19,37	3.601,54	19,37	\$ 185,91	\$ 3.601,54	
Reinforcement bar, plain	kg	-	1,61	-	-	1,61	-	3.895,74	6.272,14	3.895,74	\$ 1,61	\$ 6.272,14	
From work	sq.m	-	9,72	-	-	9,72	-	516,60	5.021,35	516,60	\$ 9,72	\$ 5.021,35	
11 Supply and installing HDPE Pipe PE100 PN12,5, OD 710 mm	lin.m	-	352,76	-	-	352,76	-	286,00	100.889,36	286,00	\$ 352,76	\$ 100.889,36	
12 Gabion box, size 2.0 x 1.0 x 0.5 m	cu.m	-	179,34	-	-	179,34	-	1.800,00	322.812,00	1.800,00	\$ 179,34	\$ 322.812,00	
TOTAL BILL NO. 10.1				1.265.902,91			1.406.088,35		2.306.286,21			2.306.286,21	
10,2 Structure works	18				Nos			25	Nos				
a. Offtake Structures	4				Nos			9	Nos				
1 Common Excavation	cu.m	21,36	4,74	101,25	21,36	4,74	101,25	280,78	1.330,88	280,78	\$ 4,74	\$ 1.330,88	
2 Embankment with compaction	cu.m	162,41	5,63	914,37	162,41	5,63	914,37	88,80	499,94	88,80	\$ 5,63	\$ 499,94	
3 Sandy gravel embankment with compaction	cu.m	7,80	5,63	43,91	7,80	5,63	43,91	0,00	0,00	0,00	\$ 5,63	\$ -	
4 Backfill	cu.m	-	4,97	-	-	4,97	-	194,81	968,18	194,81	\$ 4,97	\$ 968,18	
5 Stone masonry 1 : 3	cu.m	161,73	90,91	14.702,87	161,73	90,91	14.702,87	0,00	0,00	0,00	\$ 90,91	\$ -	
6 Plastering 1:3	sq.m	307,11	5,67	1.741,31	307,11	5,67	1.741,31	0,00	0,00	0,00	\$ 5,67	\$ -	
7 Pointing 1:2	sq.m	148,31	3,65	541,33	148,31	3,65	541,33	0,00	0,00	0,00	\$ 3,65	\$ -	
8 Concrete Type-C ($f_c = 17.5 \text{ MPa}$)	cu.m	1,86	185,91	345,79	1,86	185,91	345,79	85,83	15.955,91	85,83	\$ 185,91	\$ 15.955,91	
9 Form F2 (exposed surface)	sq.m	11,90	9,72	115,67	11,90	9,72	115,67	328,72	3.195,16	328,72	\$ 9,72	\$ 3.195,16	
10 Reinforcement bar	kg	426,36	1,61	686,44	426,36	1,61	686,44	677,03	1.090,02	677,03	\$ 1,61	\$ 1.090,02	
11 Supply and installing Water Level Staff Gauge, $w = 0.12 \text{ m}$	lin.m	4,15	5,75	23,86	4,15	5,75	23,86	36,85	211,89	36,85	\$ 5,75	\$ 211,89	
12 Supplying and installing:													
Slide gate b = 0.30 h = 0.30 H = 1.35	nos	1,00	332,91	332,91	1,00	332,91	332,91	0,00	0,00	0,00	\$ 332,91	\$ -	
Slide gate b = 0.30 h = 0.45 H = 1.25	nos	2,00	348,04	696,08	2,00	348,04	696,08	0,00	0,00	0,00	\$ 348,04	\$ -	
Slide gate b = 0.30 h = 0.50 H = 1.25	nos	1,00	363,17	363,17	1,00	363,17	363,17	0,00	0,00	0,00	\$ 363,17	\$ -	
Slide gate b = 0.30 h = 0.50 H = 1.30	nos	1,00	363,17	363,17	1,00	363,17	363,17	0,00	0,00	0,00	\$ 363,17	\$ -	

WORKS DESCRIPTION	UNIT	CONTRACT			VARIATION ORDER NO.1			VARIATION ORDER NO 2		Rejultado Verifikasiadn ADN VO.2		
		QTY	UNIT PRICE	TOTAL	QTY	UNIT PRICE	TOTAL	QTY	PRICE (US \$)	QTY	PRICES US\$)	Amount (US\$)
			(US \$)	(US \$)		(US \$)	(US \$)		(US \$)		(US \$)	
Slide gate b = 0.30 h = 0.55 H = 1.35	nos	1,00	378,31	378,31	1,00	378,31	378,31	0,00	0,00	0,00	\$ 378,31	\$ -
Slide gate b = 0.40 h = 0.50 H = 1.30	nos	1,00	378,31	378,31	1,00	378,31	378,31	4,00	1.513,24	4,00	\$ 378,31	\$ 1.513,24
Slide gate b = 0.50 h = 0.30 H = 1.25	nos	1,00	363,17	363,17	1,00	363,17	363,17	0,00	0,00	0,00	\$ 363,17	\$ -
Slide gate b = 0.50 h = 0.30 H = 1.30	nos	1,00	363,17	363,17	1,00	363,17	363,17	0,00	0,00	0,00	\$ 363,17	\$ -
Slide gate b = 0.50 h = 0.40 H = 1.50	nos	1,00	393,44	393,44	1,00	393,44	393,44	4,00	1.573,76	4,00	\$ 393,44	\$ 1.573,76
Slide gate b = 0.50 h = 0.75 H = 1.55	nos	1,00	575,03	575,03	1,00	575,03	575,03	0,00	0,00	0,00	\$ 575,03	\$ -
Slide gate b = 0.70 h = 0.50 H = 1.50	nos	1,00	605,29	605,29	1,00	605,29	605,29	0,00	0,00	0,00	\$ 605,29	\$ -
TOTAL BILL OFFTAKE STRUCTURES				24.028,86			24.028,86		26.338,98			26.338,98
b. Simple Offtake Structures	7			Nos			1	Nos				
1 Common Excavation	cu.m	57,33	4,74	271,74	57,33	4,74	271,74	81,85	387,97	81,85	\$ 4,74	\$ 387,97
2 Embankment with compaction	cu.m	154,74	5,63	871,19	154,74	5,63	871,19	37,77	212,62	37,77	\$ 5,63	\$ 212,62
3 Backfill	cu.m	2,67	4,97	13,27	2,67	4,97	13,27	58,80	292,23	58,80	\$ 4,97	\$ 292,23
4 Sandy gravel embankment with compaction	cu.m	3,42	5,63	19,25	3,42	5,63	19,25	0,00	0,00	0,00	\$ 5,63	\$ -
5 Stone masonry 1 : 3	cu.m	106,26	90,91	9.660,10	106,26	90,91	9.660,10	0,00	0,00	0,00	\$ 90,91	\$ -
6 Plastering 1:3	sq.m	127,66	5,67	723,83	127,66	5,67	723,83	0,00	0,00	0,00	\$ 5,67	\$ -
7 Pointing 1:2	sq.m	180,55	3,65	659,01	180,55	3,65	659,01	0,00	0,00	0,00	\$ 3,65	\$ -
8 Supplying and installing PVC pipe type AW dia. 4 inch	lin.m	41,10	7,53	309,48	41,10	7,53	309,48	0,00	0,00	0,00	\$ 7,53	\$ -
10 Concrete Type-C (f'c = 17.5 MPa)	cu.m		185,91		-	185,91		10,51	1.953,64	10,51	\$ 185,91	\$ 1.953,64
11 Form F2 (exposed surface)	sq.m		9,72		-	9,72		38,50	374,22	38,50	\$ 9,72	\$ 374,22
12 Reinforcement bar	kg	-	1,61	-	-	1,61	-	136,48	219,73	136,48	\$ 1,61	\$ 219,73
13 Supplying and installing:												
Slide gate b = 0.30 h = 0.40 H = 1.20	nos	1,00	332,91	332,91	1,00	332,91	332,91	2,00	665,82	2,00	\$ 332,91	\$ 665,82
Slide gate b = 0.40 h = 0.50 H = 1.30	nos	-	378,31	-	-	378,31	-	1,00	378,31	1,00	\$ 378,31	\$ 378,31
Slide gate b = 0.30 h = 1.20 H = 2.00	nos	6	514,5	3.087,00	6	514,5	3.087,00	-	0,00	0,00	\$ 514,50	\$ -
TOTAL BILL OF SIMPLE OFFTAKE STRUCTURES				15.947,78			15.947,78		4.484,52			4.484,52
c. Aqueduct Structure	1			Nos			1	Nos				
1 Common Excavation	cu.m	956,61	4,74	4.534,33	706,47	4,74	3.348,67	706,47	3.348,67	706,47	\$ 4,74	\$ 3.348,67
2 Embankment with compaction	cu.m	1.099,22	5,63	6.188,61	-	5,63	-	0,00	0,00	0,00	\$ 5,63	\$ -
3 Backfill	cu.m	488,15	4,97	2.426,11	500,13	4,97	2.485,65	500,13	2.485,65	500,13	\$ 4,97	\$ 2.485,65

WORKS DESCRIPTION	UNIT	CONTRACT			VARIATION ORDER NO.1			VARIATION ORDER NO 2		Rejultado Verifikasiadun ADN VO.2		
		QTY	UNIT PRICE	TOTAL	QTY	UNIT PRICE	TOTAL	QTY	PRICE (US \$)	QTY	PRICES US\$)	Amount (US\$)
			(US \$)	(US \$)		(US \$)	(US \$)		(US \$)		(US \$)	
4 Stone masonry 1 : 3	cu.m	430,23	90,91	39.112,21	165,12	90,91	15.011,06	165,12	15.011,06	165,12	\$ 90,91	\$ 15.011,06
5 Plastering 1:3	sq.m	110,05	5,67	623,98	71,74	5,67	406,77	71,74	406,77	71,74	\$ 5,67	\$ 406,77
6 Pointing 1:2	sq.m	895,43	3,65	3.268,32	-	3,65	-	0,00	0,00	0,00	\$ 3,65	\$ -
7 Concrete Type-B ($f_c = 22.5 \text{ MPa}$)	cu.m	170,70	198,46	33.877,12	164,27	198,46	32.601,02	164,27	32.601,02	164,27	\$ 198,46	\$ 32.601,02
8 Concrete Type-C ($f_c = 17.5 \text{ MPa}$)	cu.m	1,01	185,91	187,77	1,01	185,91	187,77	1,01	187,77	1,01	\$ 185,91	\$ 187,77
9 Concrete Type-E ($f_c'=12.5 \text{ Mpa}$)	cu.m	6,85	171,27	1.173,20	8,21	171,27	1.406,13	8,21	1.406,13	8,21	\$ 171,27	\$ 1.406,13
10 Form F1 (non exposed surface)	sq.m	70,00	9,72	680,40	84,00	9,72	816,48	84,00	816,48	84,00	\$ 9,72	\$ 816,48
11 Form F2 (exposed surface)	sq.m	294,27	9,72	2.860,30	428,51	9,72	4.165,12	428,51	4.165,12	428,51	\$ 9,72	\$ 4.165,12
12 Reinforcement bar, plain	kg	5.645,98	1,61	9.090,03	261,61	1,61	421,19	261,61	421,19	261,61	\$ 1,61	\$ 421,19
13 Reinforcement bar, deformed	kg	8.341,16	1,61	13.429,27	15.234,43	1,61	24.527,43	15.234,43	24.527,43	15.234,43	\$ 1,61	\$ 24.527,43
14 Supply and installing hand rail, GSP pipe dia. 2.5"	lin.m	363,00	37,66	13.670,58	363,00	37,66	13.670,58	363,00	13.670,58	363,00	\$ 37,66	\$ 13.670,58
15 Supply and installing PVC waterstop, 24 cm width	lin.m	15,05	7,57	113,93	15,19	7,57	114,99	15,19	114,99	15,19	\$ 7,57	\$ 114,99
TOTAL BILL OF AQUEDUCT STRUCTURE				131.236,16			99.162,85		99.162,85			99.162,85
d. Cross Drain Structures		1			Nos			8	Nos			
1 Common Excavation	cu.m	696,15	4,74	3.299,75	696,15	4,74	3.299,75	1.679,85	7.962,48	1.679,85	\$ 4,74	\$ 7.962,48
2 Embankment with compaction	cu.m	84,08	5,63	473,37	84,08	5,63	473,37	1.667,32	9.387,02	1.667,32	\$ 5,63	\$ 9.387,02
3 Sandy gravel embankment with compaction	cu.m	3,38	5,63	19,03	3,38	5,63	19,03	0,00	0,00	0,00	\$ 5,63	\$ -
Backfill	cu.m	-	4,97	-	-	4,97	-	88,90	441,85	88,90	\$ 4,97	\$ 441,85
4 Stone masonry 1 : 3	cu.m	88,75	90,91	8.068,26	88,75	90,91	8.068,26	25,46	2.314,80	25,46	\$ 90,91	\$ 2.314,80
5 Plastering 1:3	sq.m	50,74	5,67	287,70	50,74	5,67	287,70	30,77	174,44	30,77	\$ 5,67	\$ 174,44
6 Pointing 1:2	sq.m	142,38	3,65	519,69	142,38	3,65	519,69	0,00	0,00	0,00	\$ 3,65	\$ -
7 Supply & installation of gabion box, size 2.0 x 1.0 x 0.5 m	cu.m	320,00	179,34	57.388,80	320,00	179,34	57.388,80	378,00	67.790,52	378,00	\$ 179,34	\$ 67.790,52
8 Concrete Type-B ($f_c = 22.5 \text{ MPa}$)	cu.m	112,80	198,46	22.386,29	112,80	198,46	22.386,29	0,00	0,00	0,00	\$ 198,46	\$ -
9 Concrete Type-E ($f_c'=12.5 \text{ Mpa}$)	cu.m	2,10	171,27	359,67	2,10	171,27	359,67	0,00	0,00	0,00	\$ 171,27	\$ -
10 Concrete Type-C ($f_c'=17.5 \text{ MPa}$)	cu.m		185,91	-		185,91	-	103,49	19.239,45	103,49	\$ 185,91	\$ 19.239,45
11 Form F2 (exposed surface)	sq.m	86,04	9,72	836,31	86,04	9,72	836,31	131,28	1.276,04	131,28	\$ 9,72	\$ 1.276,04
12 Reinforcement bar, deformed	kg	2.269,97	1,61	3.654,65	2.269,97	1,61	3.654,65	2.861,04	4.606,27	2.861,04	\$ 1,61	\$ 4.606,27
13 Concrete pipe dia 1.12m	lin.m	-	295,47	-	-	295,47	-	140,00	41.365,80	140,00	\$ 295,47	\$ 41.365,80
TOTAL BILL OF CROSS DRAIN STRUCTURES				97.293,51			97.293,51		154.558,68			154.558,68

WORKS DESCRIPTION	UNIT	CONTRACT			VARIATION ORDER NO.1			VARIATION ORDER NO 2			Rejultado Verifikasiadn ADN VO.2		
		QTY	UNIT PRICE	TOTAL	QTY	UNIT PRICE	TOTAL	QTY	PRICE	(US \$)	QTY	PRICES US\$	Amount (US\$)
			(US \$)	(US \$)		(US \$)	(US \$)		(US \$)	(US \$)		(US \$)	(US \$)
11,1	Canal works (L = 815 M)												
1	Stripping of top soil	sq.m	2.096,25	0,42	880,43	2.096,25	0,42	880,43	0,00	0,00	0,00	\$ 0,42	\$ -
2	Common Excavation	cu.m	1.687,74	4,74	7.999,89	1.687,74	4,74	7.999,89	0,00	0,00	0,00	\$ 4,74	\$ -
3	Embankment with compaction	cu.m	1.098,48	5,63	6.184,44	1.098,48	5,63	6.184,44	0,00	0,00	0,00	\$ 5,63	\$ -
4	Stone masonry 1 : 3	cu.m	541,41	90,91	49.219,58	-	90,91	-	0,00	0,00	0,00	\$ 90,91	\$ -
5	Plastering 1:3	sq.m	1.222,87	5,67	6.933,67	-	5,67	-	0,00	0,00	0,00	\$ 5,67	\$ -
6	Pointing 1:2	sq.m	827,47	3,65	3.020,27	-	3,65	-	0,00	0,00	0,00	\$ 3,65	\$ -
7	Cyclope with FC 17.5 mpa (60/40)	cu.m	0,00	167,14	-	358,60	167,14	59.934,62	0,00	0,00	0,00	\$ 167,14	\$ -
	TOTAL BILL NO. 11.1				74.238,28			74.999,37		0,00			0,00
11,2	Structure works	5			Nos			0	Nos				
	a. Simple Offtake Structures	3			Nos			0	Nos				
1	Common Excavation	cu.m	28,70	4,74	136,04	28,70	4,74	136,04	0,00	0,00	0,00	\$ 4,74	\$ -
2	Embankment with compaction	cu.m	16,95	5,63	95,43	16,95	5,63	95,43	0,00	0,00	0,00	\$ 5,63	\$ -
3	Backfill	cu.m	2,39	4,97	11,88	2,39	4,97	11,88	0,00	0,00	0,00	\$ 4,97	\$ -
4	Sandy gravel embankment with compaction	cu.m	-	5,63	-	-	5,63	-	0,00	0,00	0,00	\$ 5,63	\$ -
5	Stone masonry 1 : 3	cu.m	29,98	90,91	2.725,48	29,98	90,91	2.725,48	0,00	0,00	0,00	\$ 90,91	\$ -
6	Plastering 1:3	sq.m	46,17	5,67	261,78	46,17	5,67	261,78	0,00	0,00	0,00	\$ 5,67	\$ -
7	Pointing 1:2	sq.m	41,83	3,65	152,68	41,83	3,65	152,68	0,00	0,00	0,00	\$ 3,65	\$ -
8	Supplying and installing PVC pipe type AW dia. 4 inch	lin.m	8,60	7,53	64,76	8,60	7,53	64,76	0,00	0,00	0,00	\$ 7,53	\$ -
9	Concrete Type-B ($f'_c = 22.5 \text{ MPa}$)	cu.m	-	198,46	-	198,46		0,00	0,00	0,00	\$ 198,46	\$ -	
10	Concrete Type-C ($f'_c = 17.5 \text{ MPa}$)	cu.m	-	185,91	-	185,91		0,00	0,00	0,00	\$ 185,91	\$ -	
11	Form F2 (exposed surface)	sq.m	-	9,72	-	9,72		0,00	0,00	0,00	\$ 9,72	\$ -	
12	Reinforcement bar, plain	kg	-	1,61	-	1,61		0,00	0,00	0,00	\$ 1,61	\$ -	
13	Supplying and installing:							0,00					
	Slide gate b = 0.50 h = 0.30 H = 1.10	nos	3,00	363,17	1.089,51	3,00	363,17	1.089,51	0,00	0,00	0,00	\$ 363,17	\$ -
	TOTAL BILL SIMPLE OFFTAKE STRUCTURES				4.537,56			4.537,56		0,00			0,00
	b. Chute Structure	1			Nos			0	Nos				
1	Common Excavation	cu.m	3.024,79	4,74	14.337,50	3.024,79	4,74	14.337,50	0,00	0,00	0,00	\$ 4,74	\$ -

WORKS DESCRIPTION	UNIT	CONTRACT			VARIATION ORDER NO.1			VARIATION ORDER NO 2			Rejultado Verifikasiadn ADN VO.2		
		QTY	UNIT PRICE	TOTAL	QTY	UNIT PRICE	TOTAL	QTY	PRICE (US \$)	QTY	PRICES US\$)	Amount (US\$)	
			(US \$)	(US \$)		(US \$)	(US \$)		(US \$)		(US \$)		
2	Backfill	cu.m	27,76	4,97	137,97	27,76	4,97	137,97	0,00	0,00	0,00	\$ 4,97	\$ -
3	Sandy gravel embankment with compaction	cu.m	119,27	5,63	671,49	119,27	5,63	671,49	0,00	0,00	0,00	\$ 5,63	\$ -
4	Stone masonry 1 : 3	cu.m	483,88	90,91	43.989,53	-	90,91	-	0,00	0,00	0,00	\$ 90,91	\$ -
5	Plastering 1:3	sq.m	634,79	5,67	3.599,26	-	5,67	-	0,00	0,00	0,00	\$ 5,67	\$ -
6	Pointing 1:2	sq.m	491,99	3,65	1.795,76	-	3,65	-	0,00	0,00	0,00	\$ 3,65	\$ -
7	Concrete Type-E (fc'=12.5 Mpa)	cu.m	13,03	171,27	2.231,65	-	171,27	-	0,00	0,00	0,00	\$ 171,27	\$ -
8	Cyclope with FC 17.5 mpa (60/40)	cu.m		167,14	-	114,85	167,14	19.194,93	0,00	0,00	0,00	\$ 167,14	\$ -
TOTAL BILL OF CHUTE STRUCTURE				66.763,16			34.341,89		0,00				0,00
c. Cross Drain Structures		1			Nos			0	Nos				
1	Common Excavation	cu.m	412,86	4,74	1.956,96	412,86	4,74	1.956,96	0,00	0,00	0,00	\$ 4,74	\$ -
2	Embankment with compaction	cu.m	31,92	5,63	179,71	31,92	5,63	179,71	0,00	0,00	0,00	\$ 5,63	\$ -
3	Backfill	cu.m	20,46	4,97	101,69	20,46	4,97	101,69	0,00	0,00	0,00	\$ 4,97	\$ -
4	Sandy gravel embankment with compaction	cu.m	2,70	5,63	15,20	2,70	5,63	15,20	0,00	0,00	0,00	\$ 5,63	\$ -
5	Stone masonry 1 : 3	cu.m	81,20	90,91	7.381,89	81,20	90,91	7.381,89	0,00	0,00	0,00	\$ 90,91	\$ -
6	Plastering 1:3	sq.m	44,58	5,67	252,77	44,58	5,67	252,77	0,00	0,00	0,00	\$ 5,67	\$ -
7	Pointing 1:2	sq.m	132,97	3,65	485,34	132,97	3,65	485,34	0,00	0,00	0,00	\$ 3,65	\$ -
8	Supply & installation of gabion box, size 2.0 x 1.0 x 0.5 m	cu.m	4,00	179,34	717,36	4,00	179,34	717,36	0,00	0,00	0,00	\$ 179,34	\$ -
9	Concrete Type-B (f'c = 22.5 MPa)	cu.m	112,80	198,46	22.386,29	112,80	198,46	22.386,29	0,00	0,00	0,00	\$ 198,46	\$ -
10	Concrete Type-E (fc'=12.5 Mpa)	cu.m	2,70	171,27	462,43	2,70	171,27	462,43	0,00	0,00	0,00	\$ 171,27	\$ -
11	Concrete Type-C (fc'=17.5 Mpa)	cu.m	-	185,91	-	-	185,91	-	0,00	0,00	0,00	\$ 185,91	\$ -
12	Form F2 (exposed surface)	sq.m	86,04	9,72	836,31	86,04	9,72	836,31	0,00	0,00	0,00	\$ 9,72	\$ -
13	Reinforcement bar, deformed	kg	2.269,97	1,61	3.654,65	2.269,97	1,61	3.654,65	0,00	0,00	0,00	\$ 1,61	\$ -
14	Concrete pipe dia 1.12m	lin.m	-	295,47	-	-	295,47	-	0,00	0,00	0,00	\$ 295,47	\$ -
TOTAL BILL OF CROSS DRAIN STRUCTURES				38.430,59			38.430,59		0,00				0,00
TOTAL BILL NO.11.2				109.731,31			77.310,04		0,00				0,00
TOTAL BILL NO. XI				183.969,59			152.309,42		0,00				0,00
XII. Construction of Inspection Road from Sediment Trap - Regulating - Main Canal (L = 3000.00m)													
1	Common Excavation	cu.m		4,74			4,74		30.000,00	142.200,00	30.000,00	\$ 4,74	\$ 142.200,00
2	Embankment with compaction	cu.m		5,63			5,63		1.000,00	5.630,00	1.000,00	\$ 5,63	\$ 5.630,00

	WORKS DESCRIPTION	UNIT	CONTRACT			VARIATION ORDER NO.1			VARIATION ORDER NO 2		Rejultado Verifikasiadn ADN VO.2		
			QTY	UNIT PRICE	TOTAL	QTY	UNIT PRICE	TOTAL	QTY	PRICE (US \$)	QTY	PRICES US\$)	Amount (US\$)
				(US \$)	(US \$)		(US \$)	(US \$)		(US \$)		(US \$)	
3	Sub Base Course	cu.m	650,55	24,74	16.094,61	1.301,10	24,74	32.189,21	6.282,00	155.416,68	6.282,00	\$ 24,74	\$ 155.416,68
4	Base Course	cu.m	325,28	24,74	8.047,30	-	24,74	-	0,00	0,00	0,00	\$ 24,74	\$ -
5	Asphalt macadam penetration, 5 cm thickness	sq.m	6.505,50	15,99	104.022,95	-	15,99	-	0,00	0,00	0,00	\$ 15,99	\$ -
6	Concrete Type-C ($f_c = 17.5 \text{ MPa}$)	cu.m	-	185,91	-	-	185,91	-	1.800,00	334.638,00	1.800,00	\$ 185,91	\$ 334.638,00
TOTAL BILL NO. XII					128.164,86			32.189,21		637.884,68			637.884,68
XIII. Oebobo Pipe Works													
13,1	Pipe works (L = 2,186 M)												
1	Common Excavation	cu.m	2.807,74	5,21	14.628,33	2.807,74	5,21	14.628,33	14.493,57	75.511,50	14.493,57	\$ 5,21	\$ 75.511,50
2	Embankment with compaction	cu.m	6,15	5,63	34,62	6,15	5,63	34,62	4.478,05	25.211,43	4.478,05	\$ 5,63	\$ 25.211,43
3	Backfill	cu.m	2.663,16	4,97	13.235,91	2.663,16	4,97	13.235,91	2.741,60	13.625,74	2.741,60	\$ 4,97	\$ 13.625,74
4	Supply and installing HDPE Pipe PE100 PN12,5, OD 400 mm	lin.m	2.186,00	115,59	252.679,74	2.186,00	115,59	252.679,74	1.440,00	166.449,60	1.440,00	\$ 115,59	\$ 166.449,60
	TOTAL BILL NO.13				280.578,60			280.578,60		280.798,26			280.798,26
TOTAL BILL NO. XIII					280.578,60			280.578,60		280.798,26			280.798,26
XIV. OVERHEAD													
1	Site engineer	ls	1,00	298.110,00	298.110,00	1,00	298.110,00	298.110,00	1,00	298.110,00	1,00	\$ 298.110,00	\$ 298.110,00
2	Preparation of program and reports	ls	1,00	9.414,00	9.414,00	1,00	9.414,00	9.414,00	1,00	9.414,00	1,00	\$ 9.414,00	\$ 9.414,00
3	Preparation of construction and shop drawings	ls	1,00	14.644,00	14.644,00	1,00	14.644,00	14.644,00	1,00	14.644,00	1,00	\$ 14.644,00	\$ 14.644,00
4	Preparation of as-built drawings	ls	1,00	4.184,00	4.184,00	1,00	4.184,00	4.184,00	1,00	4.184,00	1,00	\$ 4.184,00	\$ 4.184,00
5	Provision of photographs	ls	1,00	3.556,40	3.556,40	1,00	3.556,40	3.556,40	1,00	3.556,40	1,00	\$ 3.556,40	\$ 3.556,40
6	Safety for guest	ls	1,00	1.987,40	1.987,40	1,00	1.987,40	1.987,40	1,00	1.987,40	1,00	\$ 1.987,40	\$ 1.987,40
7	Security, Safety, Health and Welfare for the Work	ls	1,00	84.328,52	84.328,52	1,00	84.328,52	84.328,52	1,00	84.328,52	1,00	\$ 84.328,52	\$ 84.328,52
8	Temporary Electricity for the Work	ls	1,00	54.601,20	54.601,20	1,00	54.601,20	54.601,20	1,00	54.601,20	1,00	\$ 54.601,20	\$ 54.601,20
9	Temporary Water for the Work	ls	1,00	36.400,80	36.400,80	1,00	36.400,80	36.400,80	1,00	36.400,80	1,00	\$ 36.400,80	\$ 36.400,80
9	Material Sampling and Testing	ls	1,00	6.380,07	6.380,07	1,00	6.380,07	6.380,07	1,00	6.380,07	1,00	\$ 6.380,07	\$ 6.380,07
TOTAL BILL NO. XIV					513.606,39			513.606,39		513.606,39			513.606,39
XV. Access Road													
1	Common Excavation	cu.m	4,74	0,00	1.912,69	4,74	9066,15	1.912,69	9.066,15	1.912,69	\$ 4,74	\$ 9.066,15	
2	Backfill	cu.m	4,97	0,00	6.396,74	4,97	31791,80	6.396,74	31.791,80	6.396,74	\$ 4,97	\$ 31.791,80	
3	Concrete Pipe dia.0.8m	lin.m	238,73	0,00	30,00	238,73	7161,87	30,00	7.161,87	30,00	\$ 238,73	\$ 7.161,87	

	WORKS DESCRIPTION	UNIT	CONTRACT			VARIATION ORDER NO.1			VARIATION ORDER NO 2			Rejultado Verifikasiadn ADN VO.2		
			QTY	UNIT PRICE	TOTAL	QTY	UNIT PRICE	TOTAL	QTY	PRICE	(US \$)	QTY	PRICES US\$)	Amount (US\$)
				(US \$)	(US \$)		(US \$)	(US \$)		(US \$)	(US \$)		(US \$)	(US \$)
4	Concrete Pipe dia.1.2m	lin.m		348,04	0,00	8,00	348,04	2784,30	8,00	2.784,30		8,00	\$ 348,04	\$ 2.784,30
5	Sandy gravel embankment with compaction	cu.m		5,63	0,00	2.850,00	5,63	16045,50	2.850,00	16.045,50		2.850,00	\$ 5,63	\$ 16.045,50
TOTAL BILL NO. XIV					-			66.849,62			66.849,62			66.849,62
XVI. Oebobo Canal Works														
13.1	Canal works (L = 1100 M)													
1	Stripping of top soil	sq.m	0,00	0,42	0,00				1.075,38	451,66		1.075,38	\$ 0,42	\$ 451,66
2	Common Excavation	cu.m	0,00	4,74	0,00				11.722,60	55.565,12		11.722,60	\$ 4,74	\$ 55.565,12
3	Embankment with compaction	cu.m	0,00	5,63	0,00				135,79	764,50		135,79	\$ 5,63	\$ 764,50
4	Cyclope with FC 17.5 mpa (60/40)	cu.m	0,00	167,14	0,00				415,66	69.471,85		415,66	\$ 167,14	\$ 69.471,85
TOTAL BILL NO. 13.2					0,00				126.253,13					126.253,13
13.2	Structure works	6	NOS											
	a. Simple Offtake Structures	3	Nos											
1	Common Excavation	cu.m	0,00	4,74	0,00				202,41	959,42		202,41	\$ 4,74	\$ 959,42
	Embankment with compaction	cu.m	0,00	5,63	0,00				109,46	616,23		109,46	\$ 5,63	\$ 616,23
2	Backfill	cu.m	0,00	4,97	0,00				154,80	769,36		154,80	\$ 4,97	\$ 769,36
7	Concrete Type-C (fc = 17.5 MPa)	cu.m	0,00	185,91	0,00				31,53	5.860,91		31,53	\$ 185,91	\$ 5.860,91
8	Form F2 (exposed surface)	sq.m	0,00	9,72	0,00				115,50	1.122,66		115,50	\$ 9,72	\$ 1.122,66
9	Reinforcement bar	kg	0,00	1,61	0,00				409,43	659,18		409,43	\$ 1,61	\$ 659,18
11	Supplying and installing:				0,00									
	Slide gate b = 0.30 h = 0.40 H = 1.20	nos	0,00	332,91	0,00				6,00	1.997,46		6,00	\$ 332,91	\$ 1.997,46
	Slide gate b = 0.40 h = 0.50 H = 1.30	nos	0,00	378,31	0,00				3,00	1.134,93		3,00	\$ 378,31	\$ 1.134,93
	TOTAL BILL OFFTAKE STRUCTURES									\$ 13.120,15				\$ 13.120,15
	b. Aqueduct Structure	2	Nos											

WORKS DESCRIPTION	UNIT	CONTRACT			VARIATION ORDER NO.1			VARIATION ORDER NO 2			Rejultado Verifikasiadn ADN VO.2		
		QTY	UNIT PRICE	TOTAL	QTY	UNIT PRICE	TOTAL	QTY	PRICE (US \$)	QTY	PRICES US\$)	Amount (US\$)	
			(US \$)	(US \$)		(US \$)	(US \$)		(US \$)		(US \$)		
1	Common Excavation	cu.m	0,00	4,74	0,00			295,42	1.400,29	295,42	\$ 4,74	\$ 1.400,29	
2	Embankment with compaction	cu.m	0,00	5,63	0,00			160,16	901,70	160,16	\$ 5,63	\$ 901,70	
3	Backfill	cu.m	0,00	4,97	0,00			283,76	1.410,30	283,76	\$ 4,97	\$ 1.410,30	
4	Stone masonry 1 : 3	cu.m	0,00	90,91	0,00			317,48	28.861,87	317,48	\$ 90,91	\$ 28.861,87	
5	Plastering 1:3	sg.m	0,00	5,67	0,00			237,55	1.346,91	237,55	\$ 5,67	\$ 1.346,91	
7	Concrete Type-B ($f'_c = 22,5 \text{ MPa}$)	cu.m	0,00	198,46	0,00			78,46	15.570,63	78,46	\$ 198,46	\$ 15.570,63	
8	Concrete Type-F ($f'_c=12,5 \text{ Mpa}$)	cu.m	0,00	171,27	0,00			2,05	350,76	2,05	\$ 171,27	\$ 350,76	
9	Form F1 (non exposed surface)	sg.m	0,00	9,72	0,00			28,00	272,16	28,00	\$ 9,72	\$ 272,16	
10	Form F2 (exposed surface)	sg.m	0,00	9,72	0,00			161,99	1.574,54	161,99	\$ 9,72	\$ 1.574,54	
12	Reinforcement bar, deformed	kg	0,00	1,61	0,00			10.867,08	17.496,00	10.867,08	\$ 1,61	\$ 17.496,00	
13	Supply and installing hand rail, GSP pipe dia. 2,5"	lin.m	0,00	37,66	0,00			72,60	2.734,12	72,60	\$ 37,66	\$ 2.734,12	
14	Supply and installing PVC waterstop, 24 cm width	lin.m	0,00	7,57	0,00			6,51	49,28	6,51	\$ 7,57	\$ 49,28	
	TOTAL BILL OF AQUEDUCT STRUCTURE			0,00				71.968,55				71.968,55	
	TOTAL BILL NO.13.2			0,00				85.088,70				85.088,70	
	TOTAL BILL NO. XVI							\$ 211.341,83				\$ 211.341,83	
XVII. maintenance room													
1	Container house include table, chair and AC	nos	0,00	6.000,00	0,00			2,00	12.000,00	2,00	\$ 6.000,00	\$ 12.000,00	
2	Solar panel	set	0,00	3.000,00	0,00			2,00	6.000,00	2,00	\$ 3.000,00	\$ 6.000,00	
3	Light	nos	0,00	30,00	0,00			8,00	240,00	8,00	\$ 30,00	\$ 240,00	
4	water pump capacity $0.27\text{m}^3/\text{h}$	nos	0,00	500,00	0,00			2,00	1.000,00	2,00	\$ 500,00	\$ 1.000,00	
5	Concrete type C for room foundation	cu.m	0,00	185,91	0,00			7,20	1.338,55	7,20	\$ 185,91	\$ 1.338,55	
	TOTAL BILL NO. XVII			0,00				20.578,55				20.578,55	
XVIII Batch Plant Irrigation Works													
1	Common Excavation	cu.m	0,00	4,74	0,00			1.109,52	5.259,12	1.109,52	\$ 4,74	\$ 5.259,12	
2	Embankment with compaction	cu.m	0,00	5,63	0,00			375,50	2.114,07	375,50	\$ 5,63	\$ 2.114,07	
3	Backfill	cu.m	0,00	4,97	0,00			776,66	3.860,00	776,66	\$ 4,97	\$ 3.860,00	
4	Concrete Type-B ($f'_c = 22,5 \text{ MPa}$)	cu.m	0,00	198,46	0,00			32,56	6.461,86	32,56	\$ 198,46	\$ 6.461,86	
5	Cyclop Concrete Type-F ($f'_c=12,5 \text{ Mpa}$)	cu.m	0,00	167,14	0,00			172,80	28.881,79	172,80	\$ 167,14	\$ 28.881,79	