

December 2, 2014

DCN: IAE-UPC-2342

Mr. Giuseppe Quarta Grupo Unidos por el Canal, S.A. Building 22B, Brujas Road Cocoli, Republic of Panama

Reference:

Contract No. CMC-221427, Design and Construction of the Third Set of Locks,

Panama Canal

Subject:

Numbering of Variations

Dear Mr. Quarta:

The Employer refers to a number of determinations, as listed below, which have resulted in changes to the Contract Price. For administrative purposes, the Employer has assigned variation numbers to each determination as shown in the table below. This is not intended to have any defining, modifying or other effect on the contents of the letters referred to.

ITEM	REFERENCE	DATE	VO NUMBER
Range Tower No. 2	IAE-UPC-1201	13-Aug-2012	122
Claim No. 10 Fiscal Law 8	IAE-UPC-1202	13-Aug-2012	123
On-Site Testing	IAE-UPC-1203	13-Aug-2012	124
Transition Walls	IAE-UPC-2119	25-Jun-2014	125
Gate Drive Mechanism	IAE-UPC-2122	25-Jun-2014	126
Claim No. 66 Increase in Wages	IAE-UPC-2127	2-Jul-2014	127
VDS Semaphores	IAE-UPC-2156	24-Jul-2014	128
Claim No. 96 - Labor Strike	IAE-UPC-2192	6-Aug-2014	129
Maintenance Closure System	IAE-UPC-2199	8-Aug-2014	130
Fingerprint Readers	IAE-UPC-2217	26-Aug-2014	131

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The Employer attaches a variation form in respect of each of the items above. The Contractor's Representative's signature is not required.

Sincerely yours,

Jorge de la Guardia

Employer's Representative

Locks Project Management Division

PANAMA CANAL AUTHORITY	VARIATION	PAGE 1 OF 1
1. REQUEST FOR PROPOSAL No.:	2. CONTRACT No.:	3. DATE:
RFP-76161	CMC-221427	December 2, 2014
RFP-76161	GIVIG-22 1427	4. VARIATION No.: 126
5. ISSUED BY:		
PANAMA CANAL AUTHORITY Employer's Representative Locks Project Management Division Building 740, Corozal Panama, Republic of Panama		
6. NAME AND ADDRESS OF CONTRACTOR (INCLU	DE 7. CONTRACTOR'S TELEPHONE	NUMBER:
PHYSICAL & POSTAL ADDRESS) Grupo Unidos por el Canal, S.A.	507-316-9900	
Building 22B, Brujas Road	8. CONTRACTOR'S FACSIMILE N	NUMBER:
Cocoli, Republic of Panama		
YES. ☑ NO. The contractor shall send a copy, d 9 A. THIS VARIATION IS EXECUTED ON THE		
THE VARIATION DESCRIBED IN ITEM	1 10 IS HEREBY INCORPORATED AND	MADE A PART OF THE CONTRACT.
9 B. THE CONTRACT REFERRED TO IN IT (such as the paying office, account num		TE ADMINISTRATIVE CHANGES
9 C. THIS BILATERAL AGREEMENT IS SIGNO. 2 OF THIS FORM, ON THE BASIS		CONTRACT REFERRED TO IN ITEM
X 9 D. OTHER. (Specify manner and the legal Refer to the Employer's Representative		PC-2122 dated June 25, 2014
9 E. ACCOUNT NUMBER (If required):		
10. DESCRIPTION OF THE VARIATION (List in account sheets).	rdance with the order of the Contract. If a	additional space is required, use blank
	See attached	
Except for the variation(s) herein specified, all othe	er terms and conditions of the Contract	t remain unchanged.
11. NAME AND TITLE OF THE PERSON AUTHORIZE TO SIGN (Type or print)	D 12. NAME AND TITLE OF THE EM	
	Jorge de la Guardia, Employer	's Representative
13. CONTRACTOR 14. DA	TE: 15. PANAMA CANAL AUTHORIT	Y 16. DATE: 2/XII/20
(Authorized signature)	(Employer's Representative/Contra	



June 25, 2014 DCN: IAE-UPC-2122

Mr. Giuseppe Quarta Grupo Unidos por el Canal, S.A. Building 22B, Brujas Road Cocoli, Republic of Panama

Reference: Contract No. CMC-221427, Design and Construction of the Third Set of Locks,

Panama Canal

Subject: Gate Drive Mechanism

Dear Mr. Quarta:

1. The Contractor by letters GUPC-IAE-1432 dated September 13, 2012, GUPC-IAE-1499 dated October 15, 2012:

- (a) submitted a value engineering proposal relating to the lock gates drive mechanism for the Employer's consideration pursuant to Sub-Clause 13.2 [Value Engineering] of the Contract;
- (b) advised the Employer that the estimated net effect of the value engineering proposal, if adopted, would be operating and maintenance savings for the Employer in the region of \$3,090,000 over a 10 year period; and
- (c) requested that the Employer accept the Contractor's value engineering proposal with an increase to the Contract Price of \$2,500,120.00 plus 5% profit (\$125,006.00), excluding overheads, which the Contractor suggested should be left in abeyance pending agreement on a methodology of calculation.
- 2. There was correspondence between the parties on the topic of overheads with the Employer maintaining that overhead should be based on the reasonable indirect costs actually incurred.
- 3. The Contractor's letter GUPC-IAE-1922 dated 17 May, 2013 stated as follows:
 - "Indirect, overhead costs and profit have to be added; an interim amount of \$862,541 is proposed The indirect and overhead costs may be adjusted once resolved."
 - No explanation has been provided by the Contractor as to the basis on which the figure of \$862,541 was calculated.
- 4. The Employer's letter IAE-UPC-1660 dated August 23, 2013 stated that this figure was not agreed and that the Contractor should

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"... demonstrate actual incurred additional overhead costs which are specifically related to the different Lock Gate Drive Mechanism in order for any overhead to be recognized and paid by the Employer. This is required by the Contract and confirmed through the DAB decision on Dispute 7, Range Target No. 2, dated November 18, 2012."

- 5. The Contractor replied in letter GUPC-IAE-2232 dated October 28, 2013 stating that it disagreed with the Employer's position. The Contractor offered to accept the sum of 25% for overheads and profit, however no explanation was provided for how that figure had been arrived at.
- 6. The Employer wrote to the Contractor by letter IAE-UPC-2037 dated May 5, 2014, stating that based on the advice, recommendations and stated benefits to the Employer contained in the Contractor's letter GUPC-IAE-1499 dated October 15, 2012, the Employer was prepared to accept the value engineering proposal to the lock gates drive mechanisms set out in the Contractor's letters GUPC-IAE-1432 dated September 13, 2012 and GUPC-IAE-1499 dated October 15, 2012 on the basis that the acceptance of this value engineering proposal would:
 - (a) entitle the Contractor to an increase to the Contract Price of \$2,500,120.00 plus 5% profit (\$125,006.00), excluding overheads;
 - (b) not entitle the Contractor to any other adjustment to the Contract Price any extension of time to the Time for Completion and/or any extension of time to any Milestone Dates;
 - (c) entitle the Contractor to be paid for overhead costs related to this value engineering proposal in an amount to be subsequently agreed or determined based on the demonstrated actual incurred additional overhead costs specifically related to the alternate Lock Gate Drive Mechanism.
- 7. The Employer's letter IAE-UPC-2037 dated May 5, 2014 and the proposed variation agreement were not acceptable to the Contractor and the Contractor, by its letter GUPC-IAE-2892 dated May 15 2014, stated as follows:

"The Contractor cannot agree to the Variation Order No 097 as currently drafted by the Employer as it provides only for the amount of \$2,500,120 plus 5% profit and does not allow recovery of any overhead and indirect costs associated with these works in the amount of \$500,024, which is an integral part of the Contractor's Value Engineering proposal.

Therefore, the Contractor requests the Employer's Representative to proceed with its contractual duty to perform a determination, pursuant to Sub-Clause 13,3 [Variation Procedure) and Sub-Clause 3.5 [Determinations), so that relevant amount may be included in the next Interim Payment Certificate"

The Contractor's reference to a contractual duty to perform a determination was misconceived as the Contractor's value engineering proposal had not been accepted by the Employer. However, the Employer accepts the value engineering proposal on the basis of the Contractor's request that the Contractor's entitlement to overheads is

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resolved by way of a determination by the Employer's Representative, all other matters having been agreed.

8. The Employer accepts the Contractor's value engineering proposal on the basis set out in this letter and encloses the determination by the Employer's Representative. The Contractor will note that the determination states that the Contractor is entitled to be paid a total sum of \$2,783,252 which includes the direct costs, overhead, and profit. The Employer will make payment that is consistent with the documented progress of this work and with the Employer's Representative determination.

Sincerely yours,

Jorge de la Guardia

Employer's Representative

Locks Project Management Division

GATE DRIVE MECHANISM

EMPLOYER'S REPRESENTATIVE DETERMINATION

JUNE 25, 2014

BACKGROUND

- 1. The Contractor submitted a value engineering proposal to the Employer pursuant to Sub-Clause 13.2 [Value Engineering] of the Conditions of Contract relating to a proposed change in the gate drive mechanism as more particularly set out in the documents referred to in IAE-UPC-2122 dated June 25, 2014.
- 2. That proposal has been accepted by the Employer on the basis that the Contractor's entitlement to overheads would (at the request of the Contractor) be determined by the Employer's Representative, all other matters relating to the effect of the acceptance on the Contract Price and/or Time for Completion and/or any Milestone Dates having been agreed.

THE CONTRACTOR'S REQUEST FOR OVERHEADS

- 3. The Contractor's letter GUPC-IAE-1922 dated 17 May, 2013 stated as follows:
 - "Indirect, overhead costs and profit have to be added; an interim amount of \$862,541 is proposed The indirect and overhead costs may be adjusted once resolved."
 - No explanation has been provided by the Contractor as to the basis on which the figure of \$862,541 was calculated.
- 4. The Employer's letter IAE-UPC-1660 dated August 23, 2013 stated that this figure was not agreed and that the Contractor should
 - "... demonstrate actual incurred additional overhead costs which are specifically related to the different Lock Gate Drive Mechanism in order for any overhead to be recognized and paid by the Employer. This is required by the Contract and confirmed through the DAB decision on Dispute 7, Range Target No. 2, dated November 18, 2012."
- 5. The Contractor replied in letter GUPC-IAE-2232 dated October 28, 2013 stating that it disagreed with the Employer's position. The Contractor offered to accept the sum of 25% for overheads and profit, however no explanation was provided for how that figure had been arrived at.

DETERMINATION PROCESS

6. The Contractor has declined to offer any explanation whatsoever as to the basis upon which it has calculated its proposed entitlement to overheads and has also declined to demonstrate any incurred additional overhead costs which are specifically related to its

value engineering proposal. The Employer's Representative has therefore been placed in the position of having to assess what overheads are likely to have been incurred (and what overheads are likely to be incurred) by the Contractor but with no information from the Contractor.

7. It would be possible to infer that the Contractor's failure to provide information is due to there being nothing to offer. However, the Employer's Representative considers that, in relation to the gate drive mechanism, there was probably some additional resource deployment and has made an reasonable estimate as to what was the incurred overhead, based on the assumptions below.

ASSUMPTIONS

- 8. The following assumptions have been made:
 - (a) The Gate Drive Mechanism VE is an optimization to CICP's original design. It involves design and fabrication changes, which were carried out by subcontractor Cimolai. A three month period was required to develop and process the design change.
 - (b) Additional overhead costs involved design coordination between GUPC and Cimolai design teams
 - (c) Additional legal and administrative work was required on Cimolai's sub-contract and CICP's sub-contract.
 - (d) Travel expenses were incurred by GUPC's electromechanical engineer (PIO office) and by GUPC's Electromechanical Resident engineer for fabrication/design/testing coordination.

DETERMINATION

- 9. The Determination of the Employer's Representative appears in the attached table.
- 10. This Determination has had to be carried out without the benefit of any supporting information from the Contractor; this was the Contractor's deliberate choice. Nonetheless, if the Contractor decides to contribute any information in support of its overhead claim, this will be considered.

Jorge de la Guardia

Employer's Representative

Male.

Locks Project Management Division

APPENDIX 1

GATE DRIVE MECHANISM - VALUE ENGINEERING ADDITIONAL WORK QUANTUM CALCULATIONS DETAIL FOR OVERHEAD COSTS

A. COSTS RELATED DIRECTLY TO THE GATES DRIVE MECHANISM ADDITIONAL WORK

INDEX	DIRECT COSTS	QTY	UNIT COST	% ALLOCATED AMOUNT	TOTAL UNIT COST	DURATION (months)	TOTAL DIRECT CO	
Ĭ	TOTAL DIRECT COSTS						\$ 2	2,500,120

B. COSTS TO SUPPORT THE GATES DRIVE MECHANISM VALUE ENGINEERING

. INDIRECT MANAGEMENT	γτρ	LY SALARY + NEFITS	% ALLOCATED AMOUNT	тоти	AL UNIT COST	DURATION (months)	TOTAL	NDIRECT COST
Design Manager (Atlantic and Pacific)	1	\$ 20,582	25%	s	5,145.48	3	s	15,436
Contractor's Representative	1	\$ 30,000	5%	s	1,500.00	3	\$	4,500
Electromechanical Engineer (PIO)	1	\$ 25,000	25%	s	6,250.00	3	\$	18,750
Electromechanical Engineer - Design Interface (CICP)	1	\$ 25,000	25%	s	6,250.00	3	\$	18,750
Electromechanical Resident Engineer at Italy (GUPC)	1	\$ 25,000	50%	s	12,500.00	3	\$	37,500
SUBTOTAL	5						\$	94,936

III. EXPAT BENEFITS	FITS Qty MONTHLY UNIT COST % ALLOCATED AMOUN		% ALLOCATED AMOUNT	TOTAL		DURATION (months)		TOTAL INDIRECT COST	
HOUSING	5	5	4,000	25%	5	5,000.00	3	5	15,00
MEALS	5	5	300	25%	\$	375.00	3	5	1,12
TRAVEL	s	5	333	25%	s	416.67	3	s	1,25
CELL PHONE	5	5	100	25%	s	125.00	3	5	37
CAR	5	s	1,863	25%	s	2,328,30	3	s	6,98
SUBTOTAL		s	6,596		s	8,244.97		s	24,73

ADMINISTRATIVE SUPPORT		М	ONTHLY SALARY + BENEFITS	% ALLOCATED AMOUNT		TOTAL	DURATION (months)	то	TAL INDIRECT COST
Administrative for Drawings submittals	1	\$	2,000	25%	\$	500.00	3	\$	1,50
Submittal coordinator	1	\$	2.600	25%	5	650.00	3	\$	1,95
Legal	1	\$	39,000	100%	s	39,000.00	0.25	s	9,75
Contract Specialist	3	\$	2,900	25%	s	2,175.00	3	\$	6,52
SUBTOTAL	6	-			-	_		\$	19,72
v. Ohters			UNIT COST	% ALLOCATED AMOUNT		TOTAL	DURATION (weeks)	то	TAL INDIRECT COST
Travel - Cimolal - Electromechanical Engineer (PIO)	2	5	5,000	100%	s	10,000.00	1 week	\$	10,00
Resident Engineer at Italy - Internal travel for design / fabrication meetings	1	\$	100	100%	\$	100.00	12 days	\$	1,20
SUBTOTAL								s	11,20

v.	TOTAL INCREMENTAL INDIRECT COSTS			\$ 150,596
VI.	TOTAL COST (DIRECT COST + INDIRECT COST)			\$ 2,650,71
VII.	PROFIT MARGIN	5%		\$ 132,53
VIII.	ESTIMATED REASONABLE COST			\$ 2,783,252