

PANAMA CANAL AUTHORITY	VARIATION	PAGE 1 OF 5
1. REQUEST FOR PROPOSAL No.:  RFP-76161	2. CONTRACT No.:  CMC-221427	3. DATE: May 22, 2013
		4. VARIATION No.: 066

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 (INCLUDE PHYSICAL & POSTAL ADDRESS)  Grupo Unidos por el Canal, S.A. Building 22B, Brujas Road Cocoli, Republic of Panama	7. CONTRACTOR'S TELEPHONE NUMBER:  507-316-9900
	8. CONTRACTOR'S FACSIMILE NUMBER:

**9. VARIATION:**

- ☒ The contract referred to in item No. 2 is hereby varied as set forth in item 10, entitled "DESCRIPTION OF VARIATION".  
☒ YES. ☐ NO. The contractor shall send a copy, duly signed, of this Variation to the Employer's Representative/Contracting Officer.

	9 A. THIS VARIATION IS EXECUTED ON THE BASIS OF: (Specify the legal authority).  THE VARIATION DESCRIBED IN ITEM 10 IS HEREBY INCORPORATED AND MADE A PART OF THE CONTRACT.
	9 B. THE CONTRACT REFERRED TO IN ITEM NO. 2, IS VARIED TO INCORPORATE ADMINISTRATIVE CHANGES (such as the paying office, account numbers, etc.).
X	9 C. THIS BILATERAL AGREEMENT IS SIGNED AND INCORPORATED INTO THE CONTRACT REFERRED TO IN ITEM NO. 2 OF THIS FORM, ON THE BASIS OF: (Specify the legal authority) Volume III, Conditions of Contract, Sub-Clause 1.16 [Entire Agreement], 4 <sup>th</sup> Paragraph
	9 D. OTHER. (Specify manner and the legal authority).
	9 E. ACCOUNT NUMBER (If required):

10. DESCRIPTION OF THE VARIATION (List in accordance with the order of the Contract. If additional space is required, use blank sheets).

**See Variation Agreement Enclosed**

Except for the variation(s) herein specified, all other terms and conditions of the Contract remain unchanged.

11. NAME AND TITLE OF THE PERSON AUTHORIZED TO SIGN (Type or print)  Bernardo Gonzalez Contractor's Representative	12. NAME AND TITLE OF THE EMPLOYER'S REPRESENTATIVE/CONTRACTING OFFICER (Type or print)  Cheryl P. George, Employer's Representative Delegee
13. CONTRACTOR	14. DATE: 22/05/2013
15. PANAMA CANAL AUTHORITY	16. DATE: 22/05/13
(Authorized signature)	(Employer's Representative/Contracting Officer's signature)

22/05/2013

**This Variation Agreement Number 066, is dated as of 22th day of May 2013 and made**

**Between:** Autoridad del Canal de Panama, Building 740, Corozal, Panama, Republic of Panama (hereinafter called the "**Employer**") on the one part,

and

Grupo Unidos por el Canal, S.A., of Building 22B, Brujas Road, Cocoli, Panama, Republic of Panama, a corporation organized under the laws of the Republic of Panama, registered under microjacket number 682266, document number 1683284 of the Mercantile Section of the Public Registry Office of the Republic of Panama (hereinafter called the "**Contractor**" and together with Employer, the "**Parties**") on the other part.

**Whereas:**

- (a) The Employer and the Contractor are party to Contract CMC-221427 for the Design and Construction of the Third Set of Locks, dated August 11, 2009 (as the same has been or may be varied, amended, supplemented or otherwise modified (the "**Contract**")).
- (b) Pursuant to Variation Agreement No. 047 dated September 6, 2012, the Employer agreed certain revised payment arrangements for EMC Plant and Materials on the terms set out in Variation Agreement No. 047.
- (c) The Contractor:
  - (i) by letter dated June 19, 2012 (Reference GUPC-IAE-1284), informed the Employer of very serious financial problems which it contended that it was facing as a consequence of the global financial and liquidity crisis and therein requested financial assistance from the Employer, including in general terms and without specific conditions rescheduling the payment on Plant and Materials. Further, by letter dated November 9, 2012 (Reference GUPC-IAE-1545) the Contractor informed the Employer of very serious financial problems which it contended that it was facing, that the situation was now "extremely critical" and therein requested financial support in the short to medium term from the Employer, which issues are considered in the subsequent correspondence of the Employer, including the Employer's Letters IAE-UPC-1313 of November 20, 2012, IAE-UPC-1359 of December 24, 2012, IAE-GUPC-1374 of January 9, 2013, and IAE-UPC-1441 of February 25, 2013 and the Contractor's Letters GUPC-IAE-1617 of December 21, 2012, GUPC-IAE-1716 of February 8, 2013, and GUPC-IAE-1755 of February 27, 2013; and





- (ii) requested in RFV No: 0181 dated May 08, 2013 a modification to the terms of Sub-Clauses 14.5.1.1 and 14.5.1.2 [*Plant and Materials Intended for the Works*] of the Contract to replace the Appendix 1 to Variation Agreement No. 047 as referred to in those Sub-Clauses with a revised Appendix 1 to include breakdowns of further appurtenances, namely the horizontal edge protection, vertical edge protection, floor covering and guardrail/handrail and to include a budget movement to transfer budget from the lock heads and wing walls to the lock chamber appurtenances.
- (d) In reliance on the Contractor's representations and assertions regarding its financial condition, ability to obtain funding and cash flow difficulties, which the Parties agree that the Employer is not able to independently verify, the Employer considers that unless it agrees to such a modification (in addition to the various other measures already agreed such as but not limited to those provided for in Variation Agreements Nos. 042, 043, 045, 47, 048, 49, 051, 052, 055, 056, 058, 59 and 60 there could be serious risk to the completion of the Project and therefore the Employer's agreement to the terms hereof is in the best interests of the Project.
- (e) Accordingly, the Employer has responded through letter IAE-UPC-1540 dated 20 May 2013, indicating to the Contractor that the Employer is willing to consider a revised payment profile, but subject to the parties agreeing a formal variation to reflect such revised arrangements.
- (f) Therefore, subject to the terms of this Variation Agreement No. 066, and based upon the representations and statements made by the Contractor concerning its financial position and ability to obtain funding, in order to assist the cash flow of the Contractor and for no other reason, the Parties have agreed to a variation to the Contract as hereinafter stated, but not further or otherwise.

**THE PARTIES HEREBY AGREE AS FOLLOWS:**

The Employer and the Contractor agree to vary the Contract as follows:

1. In this Variation Agreement No. 066, the words and expressions shall have the same meanings as are respectively assigned to them in the Contract, save as amended below or as expressly stated.
2. This Variation Agreement No. 066 and the modifications contained herein are approved and dated in writing by the authorized representatives of the Contractor and the Employer and in doing so the Parties acknowledge and identify that this is done in accordance with Sub-Clause 1.16 [*Entire Agreement*] of the Contract.
3. Notwithstanding and without prejudice to the merits of any claims that either Party may have against the other relating to the Contract (as to which both Parties' positions are fully reserved) the Contractor acknowledges and agrees that the Employer is not responsible for the Contractor's financial position and its need to



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request financial assistance. The Contractor agrees and acknowledges that it shall not make any claims against the Employer arising out of or in connection with this Variation Agreement No. 066 or in any way argue or use the fact or the terms of this Variation Agreement No. 066 in a prejudicial way against the Employer or in support of any claims or future actions. The Contractor further agrees and acknowledges that the Employer's agreement to this Variation Agreement No. 066 and the accommodation to the Contractor provided herein is not and shall not be deemed to be an agreement to grant or otherwise provide any similar or other financial accommodation as may be requested by the Contractor on or before the date hereof or in the future. All of the Contractor's existing and ongoing obligations as to the progress of the Works remain unaffected.

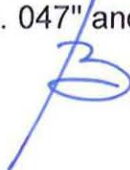
4. The Parties agree that the Contractor shall have no claims for additional time or money or any other relief or entitlement of any kind as a consequence of this Variation Agreement No. 066 or arising out of it or in any way in connection with it.
5. Further, the Contractor's obligations to complete the Works and comply with the Contract remain in all respects unaffected and nothing within this Variation Agreement No. 066 is intended to be a waiver or relaxation of the Contractor's obligations under the Contract, save only as expressly stated herein and the Contract shall remain fully effective as varied herein and the Contract shall have effect as though the provisions contained in this Variation Agreement No. 066 had been originally contained in the Contract. Any ambiguity or uncertainty in the meaning and effect of this Variation Agreement No. 066 shall be resolved in favour of the Employer.
6. This Variation Agreement No. 066 shall be governed by the Laws of the Republic of Panama and is deemed to be incorporated into and form an integral part of the Contract.
7. The Parties agree to add the following definitions to Sub-Clause 1.1 [*Definitions*] of the Contract under the Sub-Clause 1.1.6 [*Other Definitions*] (which shall be added in proper alphabetical order but without any number):

**"Variation Agreement No. 066"** means Variation Agreement Number 066, dated May 22, 2013 between the Employer and the Contractor."

8. The Parties agree to delete the existing definition of **"EMC Plant and Materials"** in Sub-Clause 1.1 [*Definitions*] of the Contract and to replace with the following:

"EMC Plant and Materials" means all the materials depicted in new Appendix 1 to Variation No. 047 which is attached in RFV No. 0181 and in this Variation Agreement No. 66."

9. The Parties hereby agree to delete all references in Sub-Clauses 14.5.1.1 and 14.5.1.2 [*Plant and Materials Intended for the Works*] of the Contract to "Appendix 1 to Variation Agreement No. 047" and replace with references to "new Appendix 1



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to Variation No. 047 which is attached in RFV No. 0181 and in this Variation Agreement No. 66"

10. Nothing in this Variation Agreement No. 066 is intended to or does give the Contractor any greater entitlement in respect of payment for EMC Plant and Materials than was included within the original Contract Price and thus nothing in this Variation Agreement No. 066 is intended to or does increase the sum due to the Contractor in respect of EMC Plant and Materials.
11. The Parties acknowledge and agree that the Employer's rights in relation to the processing of Interim Payments including but not limited to under Sub-Clause 14.6 [*Issue of Interim Payment Certificates*] remain unaffected by this Variation Agreement No. 066.

**In Witness** whereof the Parties hereto have caused this Variation Agreement No. 066 to the Contract to be executed on the 22<sup>th</sup> day of May of the year 2013 by their duly authorized representatives.

For ACP



Cheryl P. George  
Employer's Representative Delegee

For GUPCSA

  
Bernardo Gonzalez  
Contractor's Representative

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## 2) Detailed breakdown of the major features of work into programme cost loaded activities - Adjuncts

A-4080	Subcontract COM	Weight	1st Breakdown	MED-INT	2nd Breakdown	Weight breakdown	Total Quantity	PPV \$/U	Receipt	% UOM Complete	Total Cost (\$U)	% Activity Complete	Total Cost
A-Entrance/Ocean MW, Install Apparatus and Mechanical System & Equipment	FENCES (L)	10.5%	ENVELOS	3%	RECEIPT	62%	42.00	\$527.72	42.00	100%	\$22,164.23	85.4%	\$107,201.54
					INSTALLATION	38%	42.00	\$320.02	42.00	100%	\$13,556.56		
					RECEIPT	62%	42.00	\$135.06	42.00	100%	\$5,676.82		
	FENCES (L)	7%	FENCES	7%	INSTALLATION	38%	42.00	\$544.03	42.00	100%	\$22,837.26	85.4%	\$107,201.54
					RECEIPT	62%	42.00	\$135.06	42.00	100%	\$5,676.82		
					RECEIPT	62%	42.00	\$135.06	42.00	100%	\$5,676.82		
	FENCES (L)	7%	FENCES	7%	RECEIPT	62%	42.00	\$527.72	42.00	100%	\$22,164.23	85.4%	\$107,201.54
					INSTALLATION	38%	42.00	\$320.02	42.00	100%	\$13,556.56		
					RECEIPT	62%	42.00	\$135.06	42.00	100%	\$5,676.82		
	BOLLARDS (L)	2%	ENVELOS	3%	RECEIPT	62%	8.00	\$714.25	8.00	100%	\$5,714.00	85.4%	\$107,201.54
					INSTALLATION	38%	8.00	\$454.42	8.00	100%	\$3,635.36		
					RECEIPT	62%	8.00	\$277.65	8.00	100%	\$3,431.84		
	BOLLARDS (L)	6%	BOLLARDS	6%	INSTALLATION	8%	8.00	\$277.65	8.00	100%	\$2,221.20	85.4%	\$107,201.54
					RECEIPT	8%	8.00	\$277.65	8.00	100%	\$2,221.20		
					RECEIPT	8%	8.00	\$277.65	8.00	100%	\$2,221.20		
	HORIZONTAL EDGE PROTECTION (L)	15.2%	PROTECTION	100%	RECEIPT	54%	297.68	\$359.42	297.68	100%	\$106,883.92	85.4%	\$107,201.54
					INSTALLATION	46%	297.68	\$274.08	297.68	100%	\$81,841.65		
					RECEIPT	54%	297.68	\$274.08	297.68	100%	\$81,841.65		
	FLOOR COVERING (L)	3.4%	FRAME	9%	RECEIPT	62%	0.59	\$1,000.00	0.59	100%	\$589.00	3.8%	\$107,201.54
					INSTALLATION	46%	0.59	\$1,000.00	0.59	100%	\$589.00		
					RECEIPT	62%	0.59	\$1,000.00	0.59	100%	\$589.00		
	FLOOR COVERING (L)	9%	FLOOR COVERING	9%	INSTALLATION	46%	0.59	\$1,000.00	0.59	100%	\$589.00	3.8%	\$107,201.54
					RECEIPT	62%	0.59	\$1,000.00	0.59	100%	\$589.00		
					RECEIPT	62%	0.59	\$1,000.00	0.59	100%	\$589.00		
	GLASSWALL/HANDRAIL (L)	1.3%	ENVELOS	3%	RECEIPT	77%	50.00	\$57.00	50.00	100%	\$2,850.00	1.8%	\$107,201.54
					INSTALLATION	23%	50.00	\$57.00	50.00	100%	\$2,850.00		
					RECEIPT	77%	50.00	\$57.00	50.00	100%	\$2,850.00		

\$1,022,203.38

A-4148	Subcontract	Weight	1st Breakdown	MED-INT	2nd Breakdown	Weight breakdown	Total Quantity	PPV \$/U	Receipt	% UOM Complete	Total Cost (\$U)	% Activity Complete	Total Cost
A-LLO Install Apparatus (Capitana Bollards, Fenders)	FENCES (L)	48.8%	ENVELOS	3%	RECEIPT	62%	828.00	\$529.59	828.00	100%	\$435,500.52	48.7%	\$1,231,899.45
					INSTALLATION	38%	828.00	\$393.13	828.00	100%	\$327,603.86		
					RECEIPT	62%	828.00	\$142.34	828.00	100%	\$117,455.14		
	FENCES (L)	7%	FENCES	7%	INSTALLATION	38%	821.00	\$746.28	821.00	100%	\$613,220.75	48.7%	\$1,231,899.45
					RECEIPT	62%	821.00	\$173.15	821.00	100%	\$141,022.72		
					RECEIPT	62%	821.00	\$173.15	821.00	100%	\$141,022.72		
	BOLLARDS (L)	3.4%	ENVELOS	3%	RECEIPT	62%	21.00	\$503.51	21.00	100%	\$10,573.71	48.7%	\$1,231,899.45
					INSTALLATION	38%	21.00	\$503.51	21.00	100%	\$10,573.71		
					RECEIPT	62%	21.00	\$503.51	21.00	100%	\$10,573.71		
	BOLLARDS (L)	5%	BOLLARDS	5%	INSTALLATION	8%	56.00	\$1,726.25	56.00	100%	\$96,577.00	48.7%	\$1,231,899.45
					RECEIPT	8%	56.00	\$1,726.25	56.00	100%	\$96,577.00		
					RECEIPT	8%	56.00	\$1,726.25	56.00	100%	\$96,577.00		
	CAPSTANS (L)	3.4%	ENVELOS	3%	RECEIPT	62%	8.00	\$548.07	8.00	100%	\$4,384.56	48.7%	\$1,231,899.45
					INSTALLATION	38%	8.00	\$548.07	8.00	100%	\$4,384.56		
					RECEIPT	62%	8.00	\$548.07	8.00	100%	\$4,384.56		
	CAPSTANS (L)	9%	CAPSTANS	9%	INSTALLATION	23%	8.00	\$1,774.85	8.00	100%	\$14,191.20	48.7%	\$1,231,899.45
					RECEIPT	77%	8.00	\$1,774.85	8.00	100%	\$14,191.20		
					RECEIPT	77%	8.00	\$1,774.85	8.00	100%	\$14,191.20		
	MARINE SIGNALING	0.5%	PROTECTION	100%	RECEIPT	100%	1.00	\$3,000.00	1.00	100%	\$3,000.00	48.7%	\$1,231,899.45
					INSTALLATION	100%	1.00	\$3,000.00	1.00	100%	\$3,000.00		
					RECEIPT	100%	1.00	\$3,000.00	1.00	100%	\$3,000.00		
	DAMAGE MARKING ON THE WALLS (MARINE SIGNALING)	2.5%	FRAME	42%	RECEIPT	100%	1.00	\$20,558.06	1.00	100%	\$20,558.06	48.7%	\$1,231,899.45
					INSTALLATION	100%	1.00	\$20,558.06	1.00	100%	\$20,558.06		
					RECEIPT	100%	1.00	\$20,558.06	1.00	100%	\$20,558.06		
	SECTOR PANS SIGNALING (L)	4.5%	FRAME	72%	RECEIPT	72%	1.00	\$14,251.94	1.00	100%	\$14,251.94	48.7%	\$1,231,899.45
					INSTALLATION	28%	1.00	\$14,251.94	1.00	100%	\$14,251.94		
					RECEIPT	72%	1.00	\$14,251.94	1.00	100%	\$14,251.94		
	HORIZONTAL EDGE PROTECTION (L)	8.2%	PROTECTION	100%	RECEIPT	54%	824.12	\$359.42	824.12	100%	\$296,088.46	48.7%	\$1,231,899.45
					INSTALLATION	46%	824.12	\$274.08	824.12	100%	\$225,803.33		
					RECEIPT	54%	824.12	\$274.08	824.12	100%	\$225,803.33		
	FLOOR COVERING (L)	2.7%	FRAME	9%	RECEIPT	62%	22.42	\$1,000.00	22.42	100%	\$22,420.00	2.7%	\$1,231,899.45
					INSTALLATION	46%	22.42	\$1,000.00	22.42	100%	\$22,420.00		
					RECEIPT	62%	22.42	\$1,000.00	22.42	100%	\$22,420.00		
	FLOOR COVERING (L)	9%	FLOOR COVERING	9%	INSTALLATION	46%	22.42	\$1,000.00	22.42	100%	\$22,420.00	2.7%	\$1,231,899.45
					RECEIPT	62%	22.42	\$1,000.00	22.42	100%	\$22,420.00		
					RECEIPT	62%	22.42	\$1,000.00	22.42	100%	\$22,420.00		
	GLASSWALL/HANDRAIL (L)	7.3%	ENVELOS	3%	RECEIPT	77%	150.00	\$57.00	150.00	100%	\$8,550.00	7.3%	\$1,231,899.45
					INSTALLATION	23%	150.00	\$57.00	150.00	100%	\$8,550.00		
					RECEIPT	77%	150.00	\$57.00	150.00	100%	\$8,550.00		
	GLASSWALL/HANDRAIL (L)	7%	GLASSWALL/HANDRAIL	7%	INSTALLATION	11%	150.00	\$23.00	150.00	100%	\$3,450.00	7.3%	\$1,231,899.45
					RECEIPT	89%	150.00	\$23.00	150.00	100%	\$3,450.00		
					RECEIPT	89%	150.00	\$23.00	150.00	100%	\$3,450.00		

\$1,231,899.45

A-4020													
A-LMC Install Apparatus (Capitana Bollards, Fenders)	Subcontract	Weight	1ST Breakdown	MED-INT	2ND Breakdown	Weight Breakdown	Total Quantity	PPV (\$/U)	Receipt	% UOM Complete	Total Cost (\$U)	% Activity Complete	Total Cost
A-LMC Install Apparatus (Capitana Bollards, Fenders)	FENCES (L)	48.8%	EMBEDS	2%	RECEIPT	62%	840.00	\$541.14	840.00	100%	\$453,453.12	48.8%	\$1,188,203.97
					INSTALLATION	38%	840.00	\$343.52	840.00	100%	\$289,603.84		
			BOLLARDS (L)	31%	FENCES	70%	RECEIPT	42%	850.00	\$1,383.59	850.00	100%	\$1,183,435.14
	INSTALLATION	51%					850.00	\$1,488.75	850.00	100%	\$1,253,953.17		
					EMBEDS	32%	RECEIPT	62%	870.00	\$733.15	870.00	100%	\$457,560.23
			INSTALLATION	30%			870.00	\$449.79	870.00	100%	\$343,033.23		
					RINGS	15%	RECEIPT	62%	20.00	\$592.68	20.00	100%	\$11,333.66
	INSTALLATION	38%					20.00	\$599.14	20.00	100%	\$11,871.21		
					BOLLARDS	57%	RECEIPT	82%	56.00	\$1,782.25	56.00	100%	\$16,475.17
			INSTALLATION	11%			56.00	\$274.14	56.00	100%	\$1,232.55		
			CAPSTANS (L)	31%	EMBEDS	4%	RECEIPT	62%	8.00	\$549.27	8.00	100%	\$4,344.52
	INSTALLATION	38%					8.00	\$344.42	8.00	100%	\$5,962.54		
		CAPSTANS			59%	RECEIPT	82%	8.00	\$1,139.45	8.00	100%	\$17,201.75	
			INSTALLATION	11%		8.00	\$2,655.17	8.00	100%	\$15,445.51			
		Wayway Signaling	0.5%	RECEIPT	100%	RECEIPT	100%	1.00	\$20,000.00	1.00	100%	\$20,000.00	
INSTALLATION	100%					1.00	\$5,333.33	1.00	100%	\$5,333.33			
Concrete Walkways on the side of the Mainway (PPV) (BOLLARDS)	8.3%			RECEIPT	100%	RECEIPT	100%	1.00	\$330,369.26	1.00	100%	\$20,843.56	
		INSTALLATION	100%			1.00	\$30,288.11	1.00	100%	\$10,238.11			
		Stator Poles Signaling (B)	3.5%	RECEIPT	76%	RECEIPT	76%	1.00	\$19,293.54	1.00	100%	\$19,293.54	11.12%
INSTALLATION	28%					1.00	\$5,377.59	1.00	100%	\$5,377.59			
HORIZONTAL EDGE PROTECTION (L)	7.7%			PROTECTION	100%	RECEIPT	54%	8.00	\$524.40	8.00	100%	\$21,555.07	7.27%
		INSTALLATION	42%			8.00	\$2,416.88	8.00	100%	\$21,842.22			
		FLOOR COVERING (L)	14.5%	FRAME	5%	RECEIPT	62%	22.40	\$1,000.00	22.40	100%	\$7,743.30	
INSTALLATION	42%					22.40	\$2,000.00	22.40	100%	\$16,692.71			
				FLOOR COVERING	91%	RECEIPT	62%	22.40	\$1,000.00	22.40	100%	\$7,742.57	18.81%
		INSTALLATION	42%			22.40	\$2,000.00	22.40	100%	\$16,692.71			
		CURB/PAV. JUNCTION (L)	6.5%	EMBEDS	30%	RECEIPT	77%	1.50	\$97.00	1.50	100%	\$15,595.00	
INSTALLATION	27%					1.50	\$2.00	1.50	100%	\$3,000.00			
				CURB/PAV.	70%	RECEIPT	77%	1.50	\$97.00	1.50	100%	\$15,595.00	8.57%
		INSTALLATION	27%			1.50	\$2.00	1.50	100%	\$3,000.00			
		TOTAL											

		Subactivities	Weight	1ST Breakdown	WEIGHT	2ND Breakdown	Weight breakdown	Total Quantity	PPU (\$)	Receipt	% UOM Complete	Total Cost (\$)	% Activity Complete	Total Cost
A-4000	A_LUC: Install Appurtenances (Capstans, Bollards, Fenders)	FENDERS (L)	48.7%	EMBEDS	24%	RECEIPT	62%	851.00	\$559.97	851.00	100%	\$475,530.37	54.87%	\$3,636,334.75
						INSTALLATION	38%	851.00	\$342.75	851.00	100%	\$291,682.81		
		FENDERS (L)		FENDERS	72%	RECEIPT	42%	851.00	\$1,390.75	851.00	100%	\$1,187,435.14		
						INSTALLATION	51%	851.00	\$1,485.20	851.00	100%	\$1,263,959.20		
		BOLLARDS (L)	3.1%	EMBEDS	32%	RECEIPT	62%	57.00	\$703.15	57.00	100%	\$40,060.20		
						INSTALLATION	36%	56.00	\$438.09	56.00	100%	\$24,533.03		
				IN LINE BOLLARDS	15%	RECEIPT	62%	21.00	\$923.51	21.00	100%	\$19,393.56		
						INSTALLATION	36%	20.00	\$593.54	20.00	100%	\$11,870.81		
				BOLLARDS	53%	RECEIPT	82%	56.00	\$1,725.25	56.00	100%	\$96,610.01		
						INSTALLATION	11%	56.00	\$218.04	56.00	100%	\$12,259.98		
		CAPSTANS (L)	3.0%	EMBEDS	5%	RECEIPT	62%	8.00	\$838.07	8.00	100%	\$6,704.56		
						INSTALLATION	36%	8.00	\$454.62	8.00	100%	\$3,636.94		
				CAPSTANS	95%	RECEIPT	82%	8.00	\$1,896.40	8.00	100%	\$15,207.62		
						INSTALLATION	11%	8.00	\$2,695.07	8.00	100%	\$21,482.52		
		Waterway Signaling	0.5%		69%	RECEIPT	100%	1.00	\$23,000.00	1.00	100%	\$23,000.00	11.11%	\$338,251.43
					31%	INSTALLATION	100%	1.00	\$12,333.33	1.00	100%	\$12,333.33		
		Distance Markings on the walls, (Measuring rags hook)	8.5%		42%	RECEIPT	100%	1.00	\$230,358.06	1.00	100%	\$230,358.06		
					58%	INSTALLATION	100%	1.00	\$321,288.11	1.00	100%	\$321,288.11	7.31%	\$484,787.59
		Station Front Signaling	3.8%		72%	RECEIPT	72%	1.00	\$192,803.94	1.00	100%	\$192,803.94		
					28%	INSTALLATION	28%	1.00	\$70,377.69	1.00	100%	\$70,377.69		
		HORIZONTAL EDGE PROTECTION (H)	7.3%	PROTECTION	100%	RECEIPT	54%	807.30	\$328.40	807.30	100%	\$265,522.75	18.82%	\$1,232,839.45
						INSTALLATION	46%	807.30	\$274.58	807.30	100%	\$221,264.72		
		FLOOR COVERING (F)	18.5%	FRAME	9%	RECEIPT	62%	22.42	\$1,500.00	22.42	100%	\$33,630.00		
						INSTALLATION	47%	22.42	\$2,000.00	22.42	100%	\$44,842.70	8.59%	\$1,232,839.45
				FLOOR COVERING	91%	RECEIPT	62%	224.15	\$3,000.00	224.15	100%	\$672,460.41		
						INSTALLATION	42%	224.15	\$2,000.00	224.15	100%	\$448,527.07		
		GUARDRAIL / HANDRAIL (H)	6.6%	EMBEDS	30%	RECEIPT	77%	1,500.00	\$57.00	1,500.00	100%	\$85,500.00	10.22%	\$438,000.00
						INSTALLATION	23%	1,500.00	\$20.00	1,500.00	100%	\$30,000.00		
				GUARDRAIL	70%	RECEIPT	82%	1,500.00	\$150.00	1,500.00	100%	\$225,000.00		
						INSTALLATION	11%	1,500.00	\$23.00	1,500.00	100%	\$34,500.00		
\$5,627,293.14														

		\$1,045,172.35	Subactivities	Weight	1ST Breakdown	WEIGHT	2ND Breakdown	Weight breakdown	Total Quantity	PPU (\$)	Receipt	% UOM Complete	Total Cost (\$)	% Activity Complete	Total Cost		
A-4000	A_Galun WW: Install Appurtenances and Mechanical System & Equipment		FENDERS (L)	10.1%	EMBEDS	30%	RECEIPT	62%	38.00	\$520.25	38.00	100%	\$19,770.50	77.7%	\$312,883.51		
							INSTALLATION	38%	38.00	\$318.47	38.00	100%	\$12,111.71				
				FENDERS	70%	RECEIPT	67%	38.00	\$1,307.59	38.00	100%	\$49,585.66					
							INSTALLATION	33%	38.00	\$535.93	38.00	100%	\$20,373.81				
			FENDERS CORNER (L)	65.2%	EMBEDS	15%	RECEIPT	73%	2.00	\$37,045.89	2.00	100%	\$74,091.79				
							INSTALLATION	27%	2.00	\$14,237.33	2.00	100%	\$28,474.66				
				FENDERS	80%	RECEIPT	73%	2.00	\$225,412.17	2.00	100%	\$450,824.34					
							INSTALLATION	22%	2.00	\$54,059.43	2.00	100%	\$108,118.86				
			BOLLARDS (L)	2.5%	EMBEDS	30%	RECEIPT	62%	8.00	\$540.72	8.00	100%	\$4,325.76				
							INSTALLATION	36%	8.00	\$441.21	8.00	100%	\$3,529.68				
				BOLLARDS	64%	RECEIPT	80%	8.00	\$1,853.52	8.00	100%	\$14,828.16					
							INSTALLATION	11%	8.00	\$254.11	8.00	100%	\$1,632.88				
			HORIZONTAL EDGE PROTECTION (H)	15.5%	PROTECTION	100%	RECEIPT	54%	297.45	\$300.40	297.45	100%	\$89,328.25	16.52%	\$172,616.38		
							INSTALLATION	46%	297.45	\$274.58	297.45	100%	\$81,788.13				
			FLOOR COVERING (H)	3.0%	FRAME	9%	RECEIPT	62%	0.69	\$3,000.00	0.69	100%	\$2,070.00	3.63%	\$37,842.46		
							INSTALLATION	42%	0.69	\$2,000.00	0.69	100%	\$1,379.70				
				FLOOR COVERING	91%	RECEIPT	62%	6.90	\$3,000.00	6.90	100%	\$20,699.85					
							INSTALLATION	42%	6.90	\$2,000.00	6.90	100%	\$13,797.21				
			GUARDRAIL/HANDRAIL (H)	2.1%	EMBEDS	30%	RECEIPT	77%	75.00	\$57.00	75.00	100%	\$4,275.00	2.88%	\$21,750.00		
							INSTALLATION	23%	75.00	\$20.00	75.00	100%	\$1,500.00				
				GUARDRAIL	70%	RECEIPT	80%	75.00	\$180.00	75.00	100%	\$13,500.00					
							INSTALLATION	11%	75.00	\$23.00	75.00	100%	\$1,725.00				
\$1,045,172.35																	

\$564,429.51		Subactivities	Weight	1ST Breakdown	WEIGHT	2ND Breakdown	Weight breakdown	Total Quantity	PPU (\$)	Receipt	% UOM Complete	Total Cost (\$)	% Activity Complete	Total Cost
A-41100	A_LH4: Install Appurtenances and Mechanical System & Equipment	FENDERS (L)	18.4%	EMBEDS	30%	RECEIPT	62%	67.00	\$490.21	67.00	100%	\$32,843.27	21.48%	\$254,882.44
					INSTALLATION	36%	67.00	\$303.73	67.00	100%	\$20,343.27			
				FENDERS	70%	RECEIPT	67%	67.00	\$1,241.90	67.00	100%	\$83,541.96		
					INSTALLATION	33%	67.00	\$507.45	67.00	100%	\$45,099.93			
		BOLLARDS (L)	3.0%	EMBEDS	30%	RECEIPT	62%	9.00	\$718.23	9.00	100%	\$6,454.59		
					INSTALLATION	36%	8.00	\$454.62	8.00	100%	\$3,595.34			
				BOLLARDS	64%	RECEIPT	80%	9.00	\$1,847.02	9.00	100%	\$16,823.15		
					INSTALLATION	11%	8.00	\$292.45	8.00	100%	\$2,399.52			
		HORIZONTAL EDGE PROTECTION (H)	5.5%	PROTECTION	100%	RECEIPT	54%	87.58	\$328.40	87.58	100%	\$28,716.57	5.48%	\$52,830.23
					INSTALLATION	46%	87.58	\$274.58	87.58	100%	\$24,113.66			
		VERTICAL EDGE PROTECTION (H)	8.0%	PROTECTION	100%	RECEIPT	76%	88.00	\$687.60	88.00	100%	\$60,508.80	8.03%	\$77,404.83
					INSTALLATION	22%	88.00	\$192.00	88.00	100%	\$16,896.00			
		FLOOR COVERING (F)	54.8%	FRAME	9%	RECEIPT	62%	9.61	\$3,000.00	9.61	100%	\$28,832.21	54.81%	\$528,531.54
					INSTALLATION	42%	9.61	\$2,000.00	9.61	100%	\$19,221.57			
				FLOOR COVERING	91%	RECEIPT	62%	96.11	\$3,000.00	96.11	100%	\$288,322.66		
					INSTALLATION	42%	96.11	\$2,000.00	96.11	100%	\$192,255.11			
GUARDRAIL / HANDRAIL (H)	12.2%	EMBEDS	30%	RECEIPT	77%	340.00	\$57.00	340.00	100%	\$19,380.00	10.22%	\$38,650.00		
			INSTALLATION	23%	340.00	\$20.00	340.00	100%	\$6,800.00					
		GUARDRAIL	70%	RECEIPT	80%	340.00	\$180.00	340.00	100%	\$61,200.00				
			INSTALLATION	11%	340.00	\$23.00	340.00	100%	\$7,820.00					
\$644,429.51														



		\$1,006,879.19	Subactivities	weigh	1ST Breakdown	WEIGHT	2ND Breakdown	Weight breakdown	Total Quantity	PPU (\$/u)	Receipt	% UOM Complete	Total Cost (\$/u)	% Activity Complete	Total Cost
A-41580	A_LH3 Install Appurtenances and Mechanical System & Equipment	FENDERS (L)	22.1%	EMBEDS	30%	RECEIPT	62%	90.00	\$491.75	90.00	100%	\$41,557.84	25.00%	\$251,441.91	
					70%	INSTALLATION	38%	90.00	\$282.64	90.00	100%	\$25,437.40			
				FENDERS	30%	RECEIPT	67%	90.00	\$1,160.31	90.00	100%	\$104,427.40			
					70%	INSTALLATION	33%	90.00	\$565.28	90.00	100%	\$50,874.90			
		BOLLARDS (L)	2.5%	EMBEDS	30%	RECEIPT	62%	8.00	\$718.28	8.00	100%	\$5,454.50	4.90%	\$49,839.84	
					70%	INSTALLATION	38%	8.00	\$434.62	8.00	100%	\$3,566.54			
				BOLLARDS	30%	RECEIPT	80%	8.00	\$1,847.02	8.00	100%	\$15,623.15			
					70%	INSTALLATION	11%	8.00	\$262.45	8.00	100%	\$2,096.50			
		HORIZONTAL EDGE PROTECTION (H)	5.0%	PROTECTION	100%	RECEIPT	54%	83.00	\$305.40	83.00	100%	\$27,051.20	7.70%	\$77,404.80	
					INSTALLATION	46%	83.00	\$274.08	83.00	100%	\$22,743.54				
		VERTICAL EDGE PROTECTION (H)	7.7%	PROTECTION	100%	RECEIPT	79%	88.00	\$687.60	88.00	100%	\$60,508.80	8.50%	\$85,608.00	
					INSTALLATION	21%	88.00	\$192.00	88.00	100%	\$16,896.00				
		FLOOR COVERING (H)	52.6%	FRAME	5%	RECEIPT	60%	9.61	\$3,000.00	9.61	100%	\$28,932.20	52.50%	\$528,591.54	
				FLOOR COVERING	95%	RECEIPT	60%	96.11	\$3,000.00	96.11	100%	\$288,322.66			
					INSTALLATION	40%	96.11	\$2,000.00	96.11	100%	\$192,215.11				
		GUARDRAIL/HANDRAIL (H)	9.8%	EMBEDS	30%	RECEIPT	77%	340.00	\$67.00	340.00	100%	\$22,790.00	9.80%	\$98,608.00	
70%	INSTALLATION				23%	340.00	\$20.00	340.00	100%	\$6,800.00					
GUARDRAIL	70%			RECEIPT	80%	340.00	\$160.00	340.00	100%	\$61,200.00					
			INSTALLATION	11%	340.00	\$23.50	340.00	100%	\$7,822.90						
													\$1,006,879.19		

		Subactivities	weigh	1ST Breakdown	WEIGHT	2ND Breakdown	Weight breakdown	Total Quantity	PPU (\$/u)	Receipt	% UOM Complete	Total Cost (\$/u)	% Activity Complete	Total Cost
A-42040	A_LH2 Install Appurtenances and Mechanical System & Equipment	FENDERS (L)	22.1%	EMBEDS	30%	RECEIPT	62%	90.00	\$491.75	90.00	100%	\$41,557.84	25.01%	\$251,441.91
					70%	INSTALLATION	38%	90.00	\$282.64	90.00	100%	\$25,437.40		
				FENDERS	30%	RECEIPT	67%	90.00	\$1,160.31	90.00	100%	\$104,427.40		
					70%	INSTALLATION	33%	90.00	\$565.28	90.00	100%	\$50,874.90		
		BOLLARDS (L)	2.5%	EMBEDS	30%	RECEIPT	62%	8.00	\$718.28	8.00	100%	\$5,454.50	4.90%	\$49,839.84
					70%	INSTALLATION	38%	8.00	\$434.62	8.00	100%	\$3,566.54		
				BOLLARDS	30%	RECEIPT	80%	8.00	\$1,847.02	8.00	100%	\$15,623.15		
					70%	INSTALLATION	11%	8.00	\$262.45	8.00	100%	\$2,096.50		
		HORIZONTAL EDGE PROTECTION (H)	4.9%	PROTECTION	100%	RECEIPT	54%	82.00	\$305.40	82.00	100%	\$24,754.80	7.70%	\$77,404.80
						INSTALLATION	46%	82.00	\$274.08	82.00	100%	\$22,474.50		
		VERTICAL EDGE PROTECTION (H)	7.7%	PROTECTION	100%	RECEIPT	79%	88.00	\$687.60	88.00	100%	\$60,508.80	8.50%	\$85,608.00
						INSTALLATION	21%	88.00	\$192.00	88.00	100%	\$16,896.00		
		FLOOR COVERING (H)	52.6%	FRAME	5%	RECEIPT	60%	9.61	\$3,000.00	9.61	100%	\$28,932.20	52.50%	\$528,591.54
					FLOOR COVERING	95%	RECEIPT	60%	96.11	\$3,000.00	96.11	100%		
						INSTALLATION	40%	96.11	\$2,000.00	96.11	100%	\$19,215.11		
		GUARDRAIL/HANDRAIL (H)	9.8%	EMBEDS	30%	RECEIPT	77%	340.00	\$67.00	340.00	100%	\$22,790.00	9.81%	\$98,608.00
GUARDRAIL	70%				INSTALLATION	23%	340.00	\$20.00	340.00	100%	\$6,800.00			
				RECEIPT	87%	340.00	\$190.00	340.00	100%	\$65,000.00				
				INSTALLATION	11%	340.00	\$23.00	340.00	100%	\$7,800.00				
												\$1,005,277.68		

555,714.08		Subactivities	weigh	1ST Breakdown	WEIGHT	2ND Breakdown	Weight breakdown	Total Quantity	PPU (\$/u)	Receipt	% UOM Complete	Total Cost (\$/u)	% Activity Complete	Total Cost		
A-42060	A_LH1: Install Appurtenances and Mechanical System & Equipment	FENDERS (L)	14.6%	EMBEDS	30%	RECEIPT	62%	45.00	\$554.11	45.00	100%	\$24,934.70	17.85%	\$162,532.89		
					70%	INSTALLATION	38%	45.00	\$339.17	45.00	100%	\$15,252.40				
				FENDERS	30%	RECEIPT	67%	45.00	\$1,362.37	45.00	100%	\$22,856.40				
					70%	INSTALLATION	33%	45.00	\$679.33	45.00	100%	\$30,524.95				
		BOLLARDS (L)	3.2%	EMBEDS	30%	RECEIPT	62%	9.00	\$718.28	9.00	100%	\$6,454.50	4.70%	\$49,594.85		
					70%	INSTALLATION	38%	9.00	\$434.62	9.00	100%	\$3,956.54				
				BOLLARDS	30%	RECEIPT	80%	9.00	\$1,847.02	9.00	100%	\$16,623.15			8.50%	\$77,404.85
					70%	INSTALLATION	11%	9.00	\$262.45	9.00	100%	\$2,096.60				
		HORIZONTAL EDGE PROTECTION (H)	4.3%	PROTECTION	100%	RECEIPT	54%	72.60	\$306.40	72.60	100%	\$23,696.64	8.50%	\$77,404.85		
						INSTALLATION	46%	72.60	\$274.08	72.60	100%	\$19,898.21				
		VERTICAL EDGE PROTECTION (H)	8.5%	PROTECTION	100%	RECEIPT	79%	88.00	\$687.60	88.00	100%	\$60,508.80	8.50%	\$77,404.85		
						INSTALLATION	21%	88.00	\$192.00	88.00	100%	\$16,896.00				
		FLOOR COVERING (H)	54.0%	FRAME	5%	RECEIPT	60%	9.61	\$3,000.00	9.61	100%	\$28,932.20	58.04%	\$528,591.54		
					95%	INSTALLATION	40%	9.61	\$2,000.00	9.61	100%	\$19,215.11				
				FLOOR COVERING	5%	RECEIPT	60%	96.11	\$3,000.00	96.11	100%	\$289,322.60			58.04%	\$528,591.54
					95%	INSTALLATION	40%	96.11	\$2,000.00	96.11	100%	\$192,215.11				
GUARDRAIL/HANDRAIL (H)	13.8%	EMBEDS	30%	RECEIPT	77%	340.00	\$67.00	340.00	100%	\$22,790.00	10.80%	\$98,600.00				
			70%	INSTALLATION	23%	340.00	\$20.00	340.00	100%	\$6,800.00						
		GUARDRAIL	30%	RECEIPT	80%	340.00	\$180.00	340.00	100%	\$61,200.00			10.80%	\$98,600.00		
			70%	INSTALLATION	11%	340.00	\$23.00	340.00	100%	\$7,800.00						
												\$65,714.08				



## 2) Detailed breakdown of the major features of work into programme cost loaded activities - Pacific

		\$1105,978.42	Subactivities / UOM	Weight	1ST Breakdown	WEIGHT	2ND Breakdown	Weight breakdown	Total Quantity	PPV (\$/u)	Receipt	% UOM Complete	Total Cost (\$/u)	% Activity Complete	Total Cost
P41042	P_Entrance/Ocean WW Install Apparatuses and Mechanical System & Equipment		FENDERS (u)	9.7%	EMBEDS	30%	RECEIPT	62%	84.00	\$238.20	84.00	100%	\$20,113.92	73.83%	\$192,887.52
							INSTALLATION	38%	84.00	\$145.84	84.00	100%	\$12,290.47		
					FENDERS	72%	RECEIPT	67%	84.00	\$588.71	84.00	100%	\$50,291.43		
							INSTALLATION	33%	84.00	\$291.68	84.00	100%	\$24,500.35		
			FENDERS CORNER (u)	67.8%	EMBEDS	10%	RECEIPT	74%	2.00	\$26,443.82	2.00	100%	\$52,887.64		
							INSTALLATION	26%	2.00	\$9,246.57	2.00	100%	\$18,473.14		
					FENDERS	90%	RECEIPT	77%	2.00	\$264,718.08	2.00	100%	\$529,417.95		
							INSTALLATION	22%	2.00	\$14,304.15	2.00	100%	\$14,648.32		
			BOLLARDS (u)	2.4%	EMBEDS	30%	RECEIPT	62%	8.00	\$729.67	8.00	100%	\$5,837.36		
							INSTALLATION	38%	8.00	\$495.00	8.00	100%	\$3,641.00		
					BOLLARDS	64%	RECEIPT	89%	8.00	\$1,878.31	8.00	100%	\$15,013.44		
							INSTALLATION	11%	8.00	\$236.99	8.00	100%	\$1,895.91		
			HORIZONTAL EDGE PROTECTION (m)	15.4%	PROTECTION	100%	RECEIPT	54%	284.22	\$326.40	284.22	100%	\$92,768.41	15.40%	\$179,888.43
							INSTALLATION	46%	284.22	\$274.08	284.22	100%	\$77,899.02		
			FLOOR COVERING (m)	3.4%	FRAME	9%	RECEIPT	60%	0.69	\$3,000.00	0.69	100%	\$2,060.59	8.40%	\$37,542.46
							INSTALLATION	40%	0.69	\$2,000.00	0.69	100%	\$1,379.73		
					FLOOR COVERING	91%	RECEIPT	60%	6.90	\$3,000.00	6.90	100%	\$20,095.89		
INSTALLATION	40%	6.90					\$2,000.00	6.90	100%	\$13,797.26					
GUARDRAIL / HANDRAIL (m)	1.2%	EMBEDS	30%	RECEIPT	77%	50.00	\$67.00	50.00	100%	\$3,350.00	1.21%	\$14,500.00			
				INSTALLATION	23%	50.00	\$20.00	50.00	100%	\$1,000.00					
		GUARDRAIL	72%	RECEIPT	89%	50.00	\$180.00	50.00	100%	\$9,000.00					
				INSTALLATION	11%	50.00	\$23.00	50.00	100%	\$1,150.00					
\$1,126,978.42															

		Subactivities	Weight	1ST Breakdown	WEIGHT	2ND Breakdown	Weight breakdown	Total Quantity	PPV (\$/u)	Receipt	% UOM Complete	Total Cost (\$/u)	% Activity Complete	Total Cost
P-41640	P_LLC Install Apparatuses (Capstans, Bollards, Fenders)	FENDERS (u)	43.0%	EMBEDS	30%	RECEIPT	62%	881.00	\$241.40	881.00	100%	\$432,388.20	43.95%	\$2,881,547.30
						INSTALLATION	38%	881.00	\$101.38	881.00	100%	\$296,299.58		
				FENDERS	72%	RECEIPT	67%	881.00	\$1,345.34	881.00	100%	\$1,212,155.08		
						INSTALLATION	33%	881.00	\$696.56	881.00	100%	\$594,983.27		
		BOLLARDS (u)	3.4%	EMBEDS	32%	RECEIPT	62%	56.00	\$174.52	56.00	100%	\$10,572.96		
						INSTALLATION	38%	56.00	\$451.00	56.00	100%	\$25,296.00		
				IN LINE BOLLARDS	15%	RECEIPT	62%	21.00	\$304.86	21.00	100%	\$19,832.08		
						INSTALLATION	38%	20.00	\$600.00	20.00	100%	\$12,000.00		
		BOLLARDS	53%			RECEIPT	90%	56.00	\$1,747.47	56.00	100%	\$37,858.37		
						INSTALLATION	12%	56.00	\$194.00	56.00	100%	\$10,864.00		
		CAPSTANS (u)	3.5%	EMBEDS	5%	RECEIPT	62%	8.00	\$218.00	8.00	100%	\$5,544.00		
						INSTALLATION	38%	8.00	\$500.70	8.00	100%	\$4,005.58		
				CAPSTANS	95%	RECEIPT	77%	9.00	\$17,003.28	9.00	100%	\$153,020.95		
						INSTALLATION	22%	8.00	\$5,436.14	8.00	100%	\$43,488.16		
		Waterway Signaling		0.0%			69%	RECEIPT	100%	1.00	\$23,000.00	1.00	100%	\$23,000.00
			31%				INSTALLATION	100%	1.00	\$10,333.34	1.00	100%	\$10,333.34	
		Distance Markings on the walls, Liveness mps (hook) (u)		8.2%			42%	RECEIPT	100%	1.00	\$230,358.06	1.00	100%	\$230,358.06
			58%				INSTALLATION	100%	1.00	\$321,288.11	1.00	100%	\$321,288.11	
		Station Points Signaling (u)		4.2%			72%	RECEIPT	72%	1.00	\$192,903.84	1.00	100%	\$192,903.84
			28%				INSTALLATION	28%	1.00	\$70,377.69	1.00	100%	\$70,377.69	
		HORIZONTAL EDGE PROTECTION (m)		8.2%	PROTECTION	100%	RECEIPT	54%	813.10	\$326.40	813.10	100%	\$265,369.44	
							46%	813.10	\$274.08	813.10	100%	\$222,864.45		
		FLOOR COVERING (m)		20.5%	FRAME	9%	RECEIPT	60%	22.42	\$3,000.00	22.42	100%	\$67,249.56	
							40%	22.42	\$2,000.00	22.42	100%	\$44,832.71		
			FLOOR COVERING		91%	RECEIPT	60%	224.15	\$3,000.00	224.15	100%	\$672,490.41		
						40%	224.15	\$2,000.00	224.15	100%	\$448,327.07			
		GUARDRAIL / HANDRAIL (m)		7.3%	EMBEDS	30%	RECEIPT	77%	1,500.00	\$67.00	1,500.00	100%	\$100,500.00	
		23%	1,500.00				\$20.00	1,500.00	100%	\$30,000.00				
	GUARDRAIL	72%	RECEIPT		89%	1,500.00	\$180.00	1,500.00	100%	\$270,000.00				
					11%	1,500.00	\$23.00	1,500.00	100%	\$34,500.00				
\$5,982,458.27														

		Subactivities	Weight	1ST Breakdown	WEIGHT	2ND Breakdown	Weight breakdown	Total Quantity	PPV (\$/u)	Receipt	% UOM Complete	Total Cost (\$/u)	% Activity Complete	Total Cost
P-42020	P_LMC Install Apparatuses (Capstans, Bollards, Fenders)	FENDERS (u)	48.2%	EMSEDS	24%	RECEIPT	62%	881.00	\$247.55	881.00	100%	\$432,388.20	56.15%	\$3,881,272.14
						INSTALLATION	38%	881.00	\$355.24	881.00	100%	\$296,345.09		
				FENDERS	72%	RECEIPT	67%	881.00	\$1,360.44	881.00	100%	\$1,212,155.08		
						INSTALLATION	33%	881.00	\$1,432.00	881.00	100%	\$1,275,212.00		
		BOLLARDS (u)	3.1%	EMSEDS	32%	RECEIPT	62%	56.00	\$174.52	56.00	100%	\$40,572.96	56.15%	\$3,881,272.14
						INSTALLATION	38%	56.00	\$451.39	56.00	100%	\$25,278.07		
				IN LINE BOLLARDS	15%	RECEIPT	62%	20.00	\$934.86	20.00	100%	\$19,832.08		
						INSTALLATION	38%	20.00	\$600.84	20.00	100%	\$12,015.74		
		BOLLARDS	53%			RECEIPT	89%	56.00	\$1,747.47	56.00	100%	\$37,858.37	56.15%	\$3,881,272.14
						INSTALLATION	11%	56.00	\$220.72	56.00	100%	\$12,360.26		
		CAPSTANS (u)	3.1%	EMSEDS	5%	RECEIPT	62%	8.00	\$118.00	8.00	100%	\$5,544.00	3.14%	\$108,261.44
						INSTALLATION	38%	8.00	\$500.70	8.00	100%	\$4,005.58		
				CAPSTANS	95%	RECEIPT	89%	9.00	\$17,028.69	9.00	100%	\$152,154.24		
						INSTALLATION	11%	8.00	\$2,718.07	8.00	100%	\$21,744.58		
		Wayway Signaling	0.5%		69%	RECEIPT	100%	1.00	\$23,000.00	1.00	100%	\$23,000.00	11.64%	\$108,261.44
				31%	INSTALLATION	100%	1.00	\$10,333.33	1.00	100%	\$10,333.33			
		Distance Markings on the walls, Liveness mps (hook) (u)	8.3%		42%	RECEIPT	100%	1.00	\$230,358.06	1.00	100%	\$230,358.06		
				58%	INSTALLATION	100%	1.00	\$321,288.11	1.00	100%	\$321,288.11			
		Station Points Signaling (u)	3.8%		72%	RECEIPT	72%	1.00	\$192,903.84	1.00	100%	\$192,903.84	7.31%	\$108,261.44
				28%	INSTALLATION	28%	1.00	\$70,377.69	1.00	100%	\$70,377.69			
HORIZONTAL EDGE PROTECTION (m)	7.3%	PROTECTION	100%	RECEIPT	54%	812.12	\$106.40	812.12	100%	\$205,009.44	7.31%	\$87,648.81		
				INSTALLATION	46%	812.12	\$274.68	812.12	100%	\$222,580.37				
FLOOR COVERING (m)	18.5%	FRAME	9%	RECEIPT	62%	22.42	\$1,000.00	22.42	100%	\$67,243.06	18.67%	\$1,202,638.45		
		FLOOR COVERING	51%	INSTALLATION	42%	22.42	\$2,000.00	22.42	100%	\$44,832.71				
				RECEIPT	60%	224.15	\$3,000.00	224.15	100%	\$672,490.61				
				INSTALLATION	40%	224.15	\$2,000.00	224.15	100%	\$448,327.07				
GUARDRAIL / HANDRAIL (m)	6.5%	EMSEDS	30%	RECEIPT	77%	1,500.00	\$67.00	1,500.00	100%	\$100,500.00	6.52%	\$435,000.00		
		GUARDRAIL	70%	INSTALLATION	23%	1,500.00	\$20.00	1,500.00	100%	\$30,000.00				
				RECEIPT	89%	1,500.00	\$180.00	1,500.00	100%	\$270,000.00				
				INSTALLATION	11%	1,500.00	\$23.00	1,500.00	100%	\$34,500.00				





		\$1,004,923.83	Subactivities	weigh	1ST Breakdown	WEIGHT	2ND Breakdown	Weight breakdown	Total Quantity	PPU (\$/L)	Receipt	% UOM Complete	Total Cost (\$/L)	% Activity Complete	Total Cost
P-41820	P_UH3: Install Appurtenances and Mechanical System & Equipment	FENDERS (L)	22.4%	EMBEDS	30%	RECEIPT	62%	92.00	\$457.27	92.00	100%	\$42,068.74	25.38%	\$255,033.83	
						INSTALLATION	38%	92.00	\$279.89	92.00	100%	\$25,750.19			
				FENDERS	70%	RECEIPT	67%	92.00	\$1,145.53	92.00	100%	\$105,711.25			
						INSTALLATION	33%	92.00	\$559.79	92.00	100%	\$51,500.32			
		BOLLARDS (L)	3.0%	EMBEDS	30%	RECEIPT	59%	8.00	\$818.00	8.00	100%	\$6,544.00			
						INSTALLATION	41%	8.00	\$563.29	8.00	100%	\$4,506.28			
				BOLLARDS	69%	RECEIPT	89%	9.00	\$1,809.72	9.00	100%	\$16,827.50			
						INSTALLATION	11%	8.00	\$265.68	8.00	100%	\$2,125.41			
		HORIZONTAL EDGE PROTECTION (M)	5.0%	PROTECTION	100%	RECEIPT	54%	82.90	\$305.40	82.90	100%	\$27,058.56	4.95%	\$49,779.79	
						INSTALLATION	46%	82.90	\$274.08	82.90	100%	\$22,721.23			
		VERTICAL EDGE PROTECTION (M)	7.3%	PROTECTION	100%	RECEIPT	79%	82.90	\$587.60	82.90	100%	\$57,002.24	7.25%	\$72,918.84	
						INSTALLATION	22%	82.90	\$192.00	82.90	100%	\$15,918.80			
FLOOR COVERING (M)	52.6%	FRAME FLOOR COVERING	5%	RECEIPT	60%	9.51	\$3,000.00	9.51	100%	\$28,832.27	52.60%	\$528,591.54			
				INSTALLATION	45%	9.51	\$2,000.00	9.51	100%	\$19,221.51					
				RECEIPT	60%	96.11	\$3,000.00	96.11	100%	\$288,322.66					
				INSTALLATION	40%	96.11	\$2,000.00	96.11	100%	\$192,215.11					
GUARDRAIL / HANDRAIL (M)	9.8%	EMBEDS	30%	RECEIPT	77%	340.00	\$97.00	340.00	100%	\$32,780.00	9.81%	\$38,600.00			
				INSTALLATION	23%	340.00	\$20.00	340.00	100%	\$6,800.00					
				RECEIPT	69%	340.00	\$190.00	340.00	100%	\$65,200.00					
				INSTALLATION	11%	340.00	\$23.00	340.00	100%	\$7,820.00					
\$1,004,923.83															

		\$1,004,923.80	Subactivities	weigh	1ST Breakdown	WEIGHT	2ND Breakdown	Weight breakdown	Total Quantity	PPU (\$/L)	Receipt	% UOM Complete	Total Cost (\$/L)	% Activity Complete	Total Cost
P-42400	P_UH2: Install Appurtenances and Mechanical System & Equipment	FENDERS (L)	22.4%	EMBEDS	30%	RECEIPT	62%	91.00	\$452.29	91.00	100%	\$42,068.74	25.38%	\$255,033.83	
						INSTALLATION	38%	91.00	\$292.57	91.00	100%	\$25,750.19			
			FENDERS	70%	RECEIPT	67%	91.00	\$1,161.66	91.00	100%	\$105,711.20				
					INSTALLATION	33%	91.00	\$565.94	91.00	100%	\$51,500.32				
		BOLLARDS (L)	3.0%	EMBEDS	30%	RECEIPT	59%	8.00	\$818.00	8.00	100%	\$6,544.00			
						INSTALLATION	41%	8.00	\$563.29	8.00	100%	\$4,506.28			
			BOLLARDS	69%	RECEIPT	89%	9.00	\$1,809.72	9.00	100%	\$16,827.50				
					INSTALLATION	11%	8.00	\$265.68	8.00	100%	\$2,125.41				
		HORIZONTAL EDGE PROTECTION (M)	5.0%	PROTECTION	100%	RECEIPT	54%	82.90	\$305.40	82.90	100%	\$27,058.56	4.95%	\$49,779.79	
						INSTALLATION	46%	82.90	\$274.08	82.90	100%	\$22,721.23			
		VERTICAL EDGE PROTECTION (M)	7.3%	PROTECTION	100%	RECEIPT	79%	82.90	\$587.60	82.90	100%	\$57,002.24	7.25%	\$72,918.84	
						INSTALLATION	22%	82.90	\$192.00	82.90	100%	\$15,918.80			
FLOOR COVERING (M)	52.6%	FRAME	5%	RECEIPT	60%	9.51	\$3,000.00	9.51	100%	\$28,832.27	59.37%	\$528,591.54			
				INSTALLATION	40%	9.51	\$2,000.00	9.51	100%	\$19,221.51					
		FLOOR COVERING	91%	RECEIPT	60%	96.11	\$3,000.00	96.11	100%	\$288,322.66					
				INSTALLATION	40%	96.11	\$2,000.00	96.11	100%	\$192,215.11					
GUARDRAIL/HANDRAIL (M)	9.8%	EMBEDS	30%	RECEIPT	77%	340.00	\$97.00	340.00	100%	\$32,780.00	8.81%	\$38,600.00			
				INSTALLATION	23%	340.00	\$20.00	340.00	100%	\$6,800.00					
		GUARDRAIL	70%	RECEIPT	89%	340.00	\$190.00	340.00	100%	\$65,200.00					
				INSTALLATION	11%	340.00	\$23.00	340.00	100%	\$7,820.00					
\$1,004,923.80															

		\$199,382.43	Subactivities	weight	1ST Breakdown	WEIGHT	2ND Breakdown	Weight breakdown	Total Quantity	PPU (\$/L)	Receipt	% UOM Complete	Total Cost (\$/L)	% Activity Complete	Total Cost
P-42880	P_UH1: Install Appurtenances and Mechanical System & Equipment	FENDERS (L)	15.2%	EMBEDS	30%	RECEIPT	62%	47.00	\$527.06	47.00	100%	\$25,241.25	18.53%	\$165,021.46	
						INSTALLATION	38%	47.00	\$308.73	47.00	100%	\$15,450.12			
				FENDERS	70%	RECEIPT	67%	47.00	\$1,345.50	47.00	100%	\$63,436.74			
						INSTALLATION	33%	47.00	\$657.45	47.00	100%	\$30,900.19			
		BOLLARDS (L)	3.4%	EMBEDS	30%	RECEIPT	59%	8.00	\$818.00	8.00	100%	\$6,544.00			
						INSTALLATION	41%	8.00	\$563.29	8.00	100%	\$4,506.28			
				BOLLARDS	69%	RECEIPT	89%	9.00	\$1,809.72	9.00	100%	\$16,827.50			
						INSTALLATION	11%	8.00	\$265.68	8.00	100%	\$2,125.41			
		HORIZONTAL EDGE PROTECTION (M)	4.7%	PROTECTION	100%	RECEIPT	54%	69.15	\$305.40	69.15	100%	\$22,570.56	4.66%	\$41,523.19	
						INSTALLATION	46%	69.15	\$274.08	69.15	100%	\$19,052.63			
		VERTICAL EDGE PROTECTION (M)	6.4%	PROTECTION	100%	RECEIPT	79%	64.40	\$587.60	64.40	100%	\$44,281.44	6.36%	\$56,646.24	
						INSTALLATION	22%	64.40	\$192.00	64.40	100%	\$12,364.80			
FLOOR COVERING (M)	58.4%	FRAME	5%	RECEIPT	60%	9.51	\$3,000.00	9.51	100%	\$28,832.27	59.37%	\$528,591.54			
				INSTALLATION	40%	9.51	\$2,000.00	9.51	100%	\$19,221.51					
		FLOOR COVERING	91%	RECEIPT	60%	96.11	\$3,000.00	96.11	100%	\$288,322.66					
				INSTALLATION	40%	96.11	\$2,000.00	96.11	100%	\$192,215.11					
GUARDRAIL/HANDRAIL (M)	11.1%	EMBEDS	30%	RECEIPT	77%	340.00	\$97.00	340.00	100%	\$32,780.00	11.67%	\$38,600.00			
				INSTALLATION	23%	340.00	\$20.00	340.00	100%	\$6,800.00					
		GUARDRAIL	70%	RECEIPT	89%	340.00	\$190.00	340.00	100%	\$65,200.00					
				INSTALLATION	11%	340.00	\$23.00	340.00	100%	\$7,820.00					
\$890,382.43															

*B*

APPENDIX 1 TO VARIATION No.047

1.) Summary appurtenances breakdown in major features of work

ACTIVITIES		% Sup/Ins	Dolares kg	Dolares ud/m/tn	Total m	Total ud/tn/m	Alternativa #8			ATLANTIC		
FENDERS	Supply	56.72%		1,944.88		2,913.00	39.53%	Supply	\$5,665,431.79	56.72%	\$12,823,199.24	\$9,988,086.35
	Installation	43.28%		1,491.60		2,898.00		Installation	\$4,322,654.57	43.28%		
FENDERS CORNER	Supply	77.21%		278,066.86		4.00	5.70%	Supply	\$1,112,267.44	77.21%		\$1,440,628.13
	Installation	22.79%		82,090.17		4.00		Installation	\$328,360.70	22.79%		
BOLLARDS	Supply	76.90%				507.00	3.11%	Supply	\$604,465.07	76.90%	\$12,823,199.24	\$785,991.73
	Installation	23.10%				492.00		Installation	\$181,526.67	23.10%		
CAPSTANS	Supply	83.93%		20,027.46		25.50	2.41%	Supply	\$510,700.12	83.93%		\$608,493.02
	Installation	16.07%		4,074.70		24.00		Installation	\$97,792.90	16.07%		
Waterway Signaling						6.00	0.40%		\$100,000.00		\$2,514,784.29	\$2,514,784.29
Distance Markings on the walls, Lifesaving rings (hook)						6.00	6.55%		\$1,654,938.50			
Station Posts: Signaling						6.00	3.01%		\$759,845.79			
HORIZONTAL EDGE PROTECTION (m)	Supply	54.36%	13.60	326.40	3,322.41	3,322.41	7.90%	Supply	\$1,084,433.97	54.36%	\$1,995,039.56	\$1,995,039.56
	Installation	45.64%	11.42	274.08	3,322.41	3,322.41		Installation	\$910,605.58	45.64%		
VERTICAL EDGE PROTECTION (m)	Supply	78.17%	22.92	687.60	352.00	352.00	1.23%	Supply	\$242,035.20	78.17%	\$309,619.20	\$309,619.20
	Installation	21.83%	6.40	192.00	352.00	352.00		Installation	\$67,584.00	21.83%		
FLOOR COVERING (tn)	Supply	60.00%	3.00	3,000.00		1,177.79	23.31%	Supply	\$3,533,369.66	60.00%	\$5,888,949.44	\$5,888,949.44
	Installation	40.00%	2.00	2,000.00		1,177.79		Installation	\$2,355,579.78	40.00%		
GUARDRAIL / HANDRAIL (m)	Supply	85.17%		247.00	5,985.00	5,985.00	6.87%	Supply	\$1,478,295.00	85.17%	\$1,735,650.00	\$1,735,650.00
	Installation	14.83%		43.00	5,985.00	5,985.00		Installation	\$257,355.00	14.83%		
							100.00%	Supply	\$14,230,998	56.3%	\$25,267,241.72	
								Installation	\$8,521,459	33.7%		
								LS	\$2,514,784	10.0%		
								TOTAL	\$25,267,241.72			
								DIFF	\$0.00		\$25,267,241.72	
ACTIVITIES		% Sup/Ins	Dolares kg	Dolares ud/m/tn	Total m	Total ud/tn/m	Alternativa #8			PACIFIC		
FENDERS	Supply	56.95%		1,846.64		3,090.00	39.66%	Supply	\$5,706,114.56	56.95%	\$12,849,026.05	\$10,020,134.41
	Installation	43.05%		1,402.93		3,075.00		Installation	\$4,314,019.85	43.05%		
FENDERS CORNER	Supply	77.59%		275,114.75		4.00	5.61%	Supply	\$1,100,459.00	77.59%		\$1,418,217.34
	Installation	22.41%		79,439.59		4.00		Installation	\$317,758.35	22.41%		
BOLLARDS	Supply	76.68%				498.00	3.15%	Supply	\$609,372.01	76.68%	\$12,849,026.05	\$794,701.14
	Installation	23.32%				492.00		Installation	\$185,329.14	23.32%		
CAPSTANS	Supply	83.93%		20,273.65		25.50	2.44%	Supply	\$516,978.10	83.93%		\$615,973.16
	Installation	16.07%		4,124.79		24.00		Installation	\$98,995.05	16.07%		
Waterway Signaling						6.00	0.40%		\$100,000.00		\$2,514,784.29	\$2,514,784.29
Distance Markings on the walls, Lifesaving rings (hook)						6.00	6.55%		\$1,654,938.50			
Station Posts: Signaling						6.00	3.01%		\$759,845.79			
HORIZONTAL EDGE PROTECTION (m)	Supply	54.36%	13.60	326.40	3,336.38	3,336.38	7.93%	Supply	\$1,088,994.43	54.36%	\$2,003,429.46	\$2,003,429.46
	Installation	45.64%	11.42	274.08	3,336.38	3,336.38		Installation	\$914,435.03	45.64%		
VERTICAL EDGE PROTECTION (m)	Supply	78.17%	22.92	687.60	313.10	313.10	1.09%	Supply	\$215,287.56	78.17%	\$275,402.76	\$275,402.76
	Installation	21.83%	6.40	192.00	313.10	313.10		Installation	\$60,115.20	21.83%		
FLOOR COVERING (tn)	Supply	60.00%	3.00	3,000.00		1,177.79	23.31%	Supply	\$3,533,369.66	60.00%	\$5,888,949.44	\$5,888,949.44
	Installation	40.00%	2.00	2,000.00		1,177.79		Installation	\$2,355,579.78	40.00%		
GUARDRAIL / HANDRAIL (m)	Supply	85.17%		247.00	5,985.00	5,985.00	6.87%	Supply	\$1,478,295.00	85.17%	\$1,735,650.00	\$1,735,650.00
	Installation	14.83%		43.00	5,985.00	5,985.00		Installation	\$257,355.00	14.83%		
							100.00%	Supply	\$14,248,870	56.4%	\$25,267,242.00	
								Installation	\$8,503,587	33.7%		
								LS	\$2,514,784	10.0%		
								TOTAL	\$25,267,242.00			
								DIFF	\$0.00		\$25,267,242.00	

APPURTENANCES