

Bid Form

Date: May 15, 2015

IAEB² N^o: _____

To: *Zamboanga City Water District*

Address: *ZCWD Main Office Building, Pilar St., Zamboanga City*

We, the undersigned, declare that:

(a) We have examined and have no reservation to the Bidding Documents, including Addenda, for the Contract *P.R. No. 14-0560 Proposed Bulk Water Transmission Pipeline from Intersection Mayor Ceasar C. Climaco Ave.-Don Pablo Lorenzo St., (K0000+000) to Junction Limpapa Road-Pamucutan road (K 1957+537) and from Intersectin Labuan-Limpapa National Road (K0+000) to Injection Point (K 3+540.45)*

(b) We offer to execute the Work for this Contract in accordance with the Bid and Bid Data Sheet, General and Special Conditions of Contract Accompanying this Bid;

The total price of our Bid, excluding any discounts offered in item (d) below is:

PhP 515,535,555.55;

The discounts offered and the methodology for their application are: N/A

(c) Our Bid shall be valid for a period of 365 days from the date fixed for the Bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

(d) If our Bid is accepted, we commit to obtain a Performance Security in the amount of PhP 11,502,377.88;

(e) Our firm including any other subcontractors or suppliers for any part of the Contract, have nationalities from the following eligible countries: China;

(f) We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with Bidding Documents;

(g) Our firm, its affiliates or subsidiaries, including any other subcontractors or suppliers for any part of the Contract, has not been declared ineligible by the Funding Source;

- (h) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- (i) We understand that you are bound to accept the Lowest Evaluated Bid or any other Bid that you may receive.

Name:

Joseph Y. So

In the capacity of:

By virtue of Special Power of Attorney

Signed:

Duly authorized to sign the Bid for and on behalf of: Eco-System Technologies, Inc. and E.I. Construction and Development Corporation.

Date:

May 15, 2015

Republic of the Philippines
 ZAMBOANGA CITY WATER DISTRICT
 Pilar Street, Zamboanga City

PROJECT TITLE : PROP. BULK WATER TRANSMISSION PIPELINE FROM INTERSECTION MAYOR CESAR C. CLIMACO AVE.-DON PABLO LORENZO ST. (K 0000+000) TO JUNC. LABUAN-LIMPAPA ROAD-PAMUCUTAN ROAD (K1957+537) AND FROM INTERSECTION LABUAN-LIMPAPA ROAD-PAMUCUTAN ROAD (K0+000) TO INJECTION POINT (K 3+540.45)

LOCATION : ZAMBOANGA CITY, PHILIPPINES

BREAKDOWN OF EXPENDITURE		% OF TOTAL	AMOUNT
I - ESTIMATED COST			
A. DIRECT COST			
✓ 1. Mobilization / Demobilization (General Requirements/Preliminary)			
✓ 2. Materials		1.05%	5,391,414.80
✓ 3. Labor (Including Fringe Benefits)		61.40%	316,540,009.35
✓ 4. Equipment Expenses		6.50%	33,523,970.11
✗ 5. Acquisition of Service Vehicle		10.42%	53,740,408.99
✗ 6. Permits and Bonds and Documentation		0.81%	4,200,000.00
		1.21%	6,221,620.75
B. INDIRECT COST			
✓ 1. Overhead, Contingency, Miscellaneous			
✓ 2. Profit		4.43%	22,816,980.02
✓ 3. Comprehensive All Risk Insurance		6.58%	33,924,015.86
✓ 4. Value Added Tax (5 % of EDC, OCM, & Profit)		2.82%	14,542,569.47
✓ 5. Material Testing (7% of 1% of OCM)		4.56%	23,496,818.18
		0.00%	15,548.34 16,127.26
C. ENVIRONMENTAL COMPLIANCE & PERMITS			
✓ 1. DPWH Supervision Fee (1.5 % of Restoration Works)		0.14%	714,656.21
✓ 2. Concrete Cutting/ Demolition & Excavation Fee		0.08%	406,964.54
TOTAL (CONTRACT COST)		100.00%	515,535,555.55

PREPARED BY:

ENGR. MARK ALVIN CAMPS
 Sr. QUANTITY SURVEYOR - ESTI

CHECKED and VERIFIED BY:

ENGR. FERRY PICCIO
 VP for CONSTRUCTION - ESTI

NOTED BY:

ENGR. JOSEPH Y. SO
 ENGINEERING HEAD - ESTI

PROJECT : PROPOSED ZAMBOANGA BULK WATER MAIN TRANSMISSION PIPELINE
 OWNER : ZAMBOANGA CITY WATER DISTRICT
 LOCATION : PILAR STREET, ZAMBOANGA CITY
 SUBJECT : BID PROPOSAL
 CONTRACTOR : ECO SYSTEM TECH. Inc.
 DATE : 18 May 2015

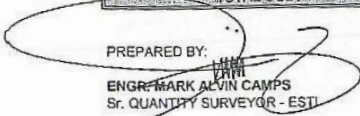
45,882,136.73

ITEM No.	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
	GENERAL REQUIREMENTS/PRELIMINARY				
SPL-1	MOBILIZATION/DEMOBILIZATION (1% of Total Indirect Cost)	1.00	lot	5,391,414.80	5,391,414.80
SPL-2	TEMPORARY FACILITIES	5.00	each	89,258.60	346,292.98
	TEMPORARY UTILITIES	1.00	lot	748,440.00	748,440.00
SPL-3	FABRICATION OF BARRICADES	412.00	each	9,203.53	3,791,852.71
SPL-4	CONSTRUCTION SAFETY & HEALTH PROGRAM	22,881.00	ln.m.	55.09	1,260,456.37
	SITE SUPERVISION and MANAGEMENT	1.00	lot	8,600,000.00	8,600,000.00
	BONDS and INSURANCES	1.00	lot	4,500,000.00	4,500,000.00
	DOCUMENTATION (AS BUILT, SHOP DRAWING etc.)	1.00	lot	600,000.00	600,000.00
	COMPREHENSIVE ALL RISK INSURANCE	1.00	lot	14,542,569.47	14,542,569.47
	MATERIAL TESTING	1.00	lot	13,568.34	16,127.26
	PERMITS (BUILDING, EXCAVATION etc.)	1.00	lot	1,121,620.75	1,121,620.75
	SUB - TOTAL				40,918,776.35
	SITE WORKS				
SPL-5	FINAL STAKING/LAYOUTING & POTHOLING	22,881.00	ln.m.	19.90	453,011.98
SPL-6	ASPHALT CUTTING	3,370.68	ln.m.	34.95	117,814.73
SPL-7	CONCRETE CUTTING	11,635.00	ln.m.	86.15	1,002,409.12
101(4)b	REMOVAL OF EXISTING ASPHALT PAVEMENT	3,926.10	sq.m.	174.26	684,160.91
101(4)a	REMOVAL OF EXISTING CONCRETE PAVEMENT	7,749.40	sq.m.	220.81	1,711,116.71
	RELOCATION OF EXISTING UTILITIES	1.00	lot	12,500,000.00	12,500,000.00
	HAULING/DISPOSAL OF DEBRIS	1.00	lot	4,375,000.00	4,375,000.00
	SUB - TOTAL				20,843,513.44
	PIPING WORKS				
SPL-8	PIPELINE EXCAVATION	48,189.66	cu.m.	346.47	16,792,815.94
103(5)c	SHORING (TEMPORARY SHEET PILING)	45,762.00	ln.m.	663.45	30,360,808.97
SPL-9a	PIPELINES & APPURTENANCES (700mmØ D.I. Pipeline) W/ PARTIAL BACKFILLING	18,825.90	ln.m.	11,880.76	223,665,974.40
SPL-9b	PIPELINES & APPURTENANCES (600mmØ D.I. Pipeline) W/ PARTIAL BACKFILLING	2,743.00	ln.m.	9,565.47	26,292,933.83
SPL-9c	PIPELINES & APPURTENANCES (350mmØ D.I. Pipeline) W/ PARTIAL BACKFILLING	1,066.00	ln.m.	4,099.47	4,370,032.95
	SUB - TOTAL				301,482,566.08
	INTERCONNECTION WORKS				
SPL-10a	INTERCONNECTION WORKS AT 1ST INJECTION POINT	1.00	assy.	1,488,721.09	1,488,721.09
SPL-10b	INTERCONNECTION WORKS AT 2ND INJECTION POINT	1.00	assy.	2,746,831.63	2,746,831.63
SPL-10c	INTERCONNECTION WORKS AT 3RD INJECTION POINT	1.00	assy.	2,801,001.21	2,801,001.21
SPL-10d	INTERCONNECTION WORKS AT 4TH INJECTION POINT	1.00	assy.	3,021,320.97	3,021,320.97
SPL-10e	INTERCONNECTION WORKS AT 5TH INJECTION POINT	1.00	assy.	1,513,033.35	1,513,033.35
SPL-10f	INTERCONNECTION WORKS AT 6TH INJECTION POINT	1.00	assy.	1,516,681.81	1,516,681.81
SPL-10g	INTERCONNECTION WORKS AT 7TH INJECTION POINT	1.00	assy.	1,141,431.88	1,141,431.88
SPL-10h	INTERCONNECTION WORKS AT 8TH INJECTION POINT	1.00	assy.	2,077,655.85	2,077,655.85
SPL-10i	INTERCONNECTION WORKS AT 9TH INJECTION POINT	1.00	assy.	3,335,973.32	3,335,973.32
SPL-10j	INTERCONNECTION WORKS AT 9THb INJECTION POINT	1.00	assy.	1,851,000.94	1,851,000.94
SPL-10k	INTERCONNECTION WORKS AT 10TH INJECTION POINT	1.00	assy.	1,952,295.27	1,952,295.27
SPL-10l	INTERCONNECTION WORKS AT 11TH INJECTION POINT	1.00	assy.	1,952,033.01	1,952,033.01
SPL-10m	INTERCONNECTION WORKS AT 12TH INJECTION POINT	1.00	assy.	1,916,055.97	1,916,055.97
SPL-10n	INTERCONNECTION WORKS AT 13TH INJECTION POINT	1.00	assy.	1,877,156.16	1,877,156.16
SPL-10o	INTERCONNECTION WORKS AT 14TH INJECTION POINT	1.00	assy.	1,982,653.75	1,982,653.75
SPL-10p	INTERCONNECTION WORKS AT 15TH INJECTION POINT	1.00	assy.	1,834,605.92	1,834,605.92
SPL-10q	INTERCONNECTION WORKS AT 16TH INJECTION POINT	1.00	assy.	1,830,878.46	1,830,878.46
SPL-10r	INTERCONNECTION WORKS AT 17TH INJECTION POINT	1.00	assy.	1,760,357.21	1,760,357.21
	SUB - TOTAL				36,599,687.80

ITEM No.	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
	PIPELINE BRIDGE CROSSING				
	PAMUCUTAN BRIDGE (700mmØ)				
103 (1)a	STRUCTURE EXCAVATION (Common Soil)	45.00	cu.m.	268.66	12,089.92
404 (2)	REINFORCED STEEL WORKS, Grade 40 (Footing & Column)	1,968.94	kgs	55.36	109,010.18
405	STRUCTURAL CONCRETE, Class A (Footing & Column)	10.76	cu.m.	12,043.11	129,547.91
103 (3)	FOUNDATION FILL	45.00	cu.m.	2,469.71	111,136.96
403 (3)	STRUCTURAL STEEL, Furnished & Fabricated	9,818.15	kg.	106.78	1,048,341.36
SPL-11	PAINTING WORKS	170.37	sq.m.	238.68	40,665.47
SPL-12	PIPELINES & APPURTENANCES	32.30	ln.m.	26,661.09	861,799.09
505 (5)	GROUTED RIPRAP (CLASS A)	6.50	cu.m.	3,374.58	21,934.79
	AYALA BRIDGE CROSSING (700mmØ)				
103 (1)a	STRUCTURE EXCAVATION (Common Soil)	104.13	cu.m.	268.66	27,974.72
404 (2)	REINFORCED STEEL WORKS, Grade 40 (Footing & Column)	5,697.82	kgs	58.96	335,940.73
405	STRUCTURAL CONCRETE, Class A (Footing & Column)	26.85	cu.m.	11,492.92	308,616.21
103 (3)	FOUNDATION FILL	104.13	cu.m.	4,964.45	516,922.86
403 (3)	STRUCTURAL STEEL, Furnished & Fabricated	47,310.98	kg.	101.23	4,789,450.81
SPL-11	PAINTING WORKS	320.22	sq.m.	236.50	75,731.62
SPL-12	PIPELINES & APPURTENANCES	63.00	ln.m.	19,371.89	1,220,429.26
SPL-13	PIPE REPLACEMENT WORKS	55.00	ln.m.	5,389.11	296,401.05
SPL-14	DEMOLITION WORKS (STONE MASONRY)	18.00	cu.m.	743.87	13,389.72
505 (5)	GROUTED RIPRAP (CLASS A)	18.00	cu.m.	3,374.58	60,742.48
	CAWIT BRIDGE (700mmØ)				
103 (1)a	STRUCTURE EXCAVATION (Common Soil)	81.92	cu.m.	268.66	22,009.02
404 (2)	REINFORCED STEEL WORKS, Grade 40 (Footing & Column)	3,672.72	kgs	57.20	221,503.00
405	STRUCTURAL CONCRETE, Class A (Footing & Column)	17.39	cu.m.	11,640.93	202,397.88
103 (3)	FOUNDATION FILL	81.92	cu.m.	4,027.52	329,934.60
403 (3)	STRUCTURAL STEEL, Furnished & Fabricated	21,034.25	kg.	101.13	2,127,091.38
SPL-11	PAINTING WORKS	219.50	sq.m.	236.44	51,898.52
SPL-12	PIPELINES & APPURTENANCES	48.00	ln.m.	17,502.94	840,141.05
SPL-13	PIPE REPLACEMENT WORKS	48.00	ln.m.	6,427.11	308,501.24
	SINUNUC BRIDGE (700mmØ)				
103 (1)a	STRUCTURE EXCAVATION (Common Soil)	75.78	cu.m.	268.66	20,358.34
404 (2)	REINFORCED STEEL WORKS, Grade 40 (Footing & Column)	4,805.46	kgs	56.09	279,230.00
405	STRUCTURAL CONCRETE, Class A (Footing & Column)	19.00	cu.m.	11,616.46	220,757.66
103 (3)	FOUNDATION FILL	75.78	cu.m.	3,768.28	285,545.22
403 (3)	STRUCTURAL STEEL, Furnished & Fabricated	21,550.61	kg.	101.11	2,178,894.60
SPL-11	PAINTING WORKS	225.60	sq.m.	238.87	53,888.43
SPL-12	PIPELINES & APPURTENANCES	48.00	ln.m.	17,521.60	841,038.97
SPL-13	PIPE REPLACEMENT WORKS	48.00	ln.m.	6,254.66	300,223.51
	MAASIN BRIDGE (700mmØ)				
103 (1)a	STRUCTURE EXCAVATION (Common Soil)	63.49	cu.m.	268.66	17,056.99
404 (2)	REINFORCED STEEL WORKS, Grade 40 (Footing & Column)	3,973.20	kgs	57.20	221,546.29
405	STRUCTURAL CONCRETE, Class A (Footing & Column)	17.89	cu.m.	11,640.45	208,303.34
103 (3)	FOUNDATION FILL	63.49	cu.m.	3,249.80	206,323.15
403 (3)	STRUCTURAL STEEL, Furnished & Fabricated	20,003.44	kg.	101.14	2,023,211.74
SPL-11	PAINTING WORKS	201.21	sq.m.	240.03	48,296.43
SPL-12	PIPELINES & APPURTENANCES	46.00	ln.m.	17,947.77	825,697.35
SPL-13	PIPE REPLACEMENT WORKS	46.00	ln.m.	5,038.91	231,789.69
	CARAGASAN RCBC (700mmØ)				
103 (1)a	STRUCTURE EXCAVATION (Common Soil)	53.75	cu.m.	268.66	14,440.73
404 (2)	REINFORCED STEEL WORKS, Grade 40 (Footing & Column)	2,065.76	kgs	55.46	114,565.35
405	STRUCTURAL CONCRETE, Class A (Footing & Column)	8.84	cu.m.	12,253.88	108,270.41
103 (3)	FOUNDATION FILL	53.75	cu.m.	2,838.91	152,591.41
403 (3)	STRUCTURAL STEEL, Furnished & Fabricated	3,256.02	kg.	101.32	329,910.39
SPL-11	PAINTING WORKS	60.25	sq.m.	262.31	15,804.50
SPL-12	PIPELINES & APPURTENANCES	19.60	ln.m.	32,704.56	641,009.41


ITEM No.	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
SPL-13	PIPE REPLACEMENT WORKS	19.60	ln.m.	8,198.89	160,698.20
	PITOGO BRIDGE (700mmØ)				
103 (1)a	STRUCTURE EXCAVATION (Common Soil)	53.75	cu.m.	268.66	14,440.73
404 (2)	REINFORCED STEEL WORKS, Grade 40 (Footing & Column)	1,777.70	kgs	55.19	98,117.74
405	STRUCTURAL CONCRETE, Class A (Footing & Column)	8.84	cu.m.	12,253.88	108,270.41
103 (3)	FOUNDATION FILL	53.75	cu.m.	2,838.91	152,591.41
403 (3)	STRUCTURAL STEEL, Furnished & Fabricated	3,223.58	kg.	101.33	326,647.27
SPL-11	PAINTING WORKS	79.47	sq.m.	248.66	19,752.31
SPL-12	PIPELINES & APPURTENANCES	23.30	ln.m.	33,809.55	787,762.45
SPL-13	PIPE REPLACEMENT WORKS	23.30	ln.m.	7,113.53	165,745.35
	SINUNUC RCBC (700mmØ)				
103 (1)a	STRUCTURE EXCAVATION (Common Soil)	33.42	cu.m.	268.66	8,978.67
404 (2)	REINFORCED STEEL WORKS, Grade 40 (Footing & Column)	1,807.05	kgs	55.12	99,599.16
405	STRUCTURAL CONCRETE, Class A (Footing & Column)	4.98	cu.m.	13,130.16	65,437.15
103 (3)	FOUNDATION FILL	33.42	cu.m.	1,981.08	66,207.03
403 (3)	STRUCTURAL STEEL, Furnished & Fabricated	953.99	kg.	104.04	99,256.78
SPL-11	PAINTING WORKS	8.76	sq.m.	425.84	3,728.34
SPL-12	PIPELINES & APPURTENANCES	14.00	ln.m.	37,526.17	525,366.37
SPL-13	PIPE REPLACEMENT WORKS	14.00	ln.m.	12,466.74	174,814.40
	SAN JOSE GUSU (600mmØ)				
103 (1)a	STRUCTURE EXCAVATION (Common Soil)	63.00	cu.m.	268.66	16,925.88
404 (2)	REINFORCED STEEL WORKS, Grade 40 (Footing & Column)	3,944.77	kgs	57.27	225,928.27
405	STRUCTURAL CONCRETE, Class A (Footing & Column)	10.25	cu.m.	12,072.28	123,691.41
103 (3)	FOUNDATION FILL	63.00	cu.m.	3,229.21	203,440.03
403 (3)	STRUCTURAL STEEL, Furnished & Fabricated	8,860.75	kg.	101.04	895,304.76
SPL-11	PAINTING WORKS	105.75	sq.m.	247.00	26,120.15
SPL-12	PIPELINES & APPURTENANCES	30.00	ln.m.	28,808.97	864,269.13
SPL-13	PIPE REPLACEMENT WORKS	30.00	ln.m.	6,420.02	192,600.52
	LEDESMA (350mmØ)				
SPL-12	PIPELINES & APPURTENANCES	14.00	ln.m.	19,055.17	266,772.37
SPL-14	DRAINAGE CROSSING WORKS	63.72	ln.m.	55,000.00	3,504,600.00
	SUB - TOTAL				32,819,320.25
	APPURTENANCES				
SPL-15a	SUPPLY & INSTALLATION OF 700MMØ D.I. BUTTERFLY VALVE, F/F	10.00	each	438,212.13	4,382,121.29
SPL-15b	SUPPLY & INSTALLATION OF 600MMØ D.I. BUTTERFLY VALVE, F/F	3.00	each	116,675.77	350,027.31
SPL-15c	SUPPLY & INSTALLATION OF 350MMØ D.I. BUTTERFLY VALVE, F/F	2.00	each	47,536.81	95,073.61
SPL-16	INSTALLATION OF 700MM Ø FULL BORE ELECTROMAGNETIC FLOWMETER WITH DATA LOGGER	1.00	lot	2,491,789.48	2,491,789.48
SPL-17	CONSTRUCTION OF FLOWMETER PANEL BOX W/ BARRICADES AT FLOW METER	5.00	assy.	73,006.80	365,034.00
SPL-18a	INSTALLATION OF 250mmØ AIR RELEASE ASSEMBLY	14.00	assy.	350,848.54	4,911,879.57
SPL-18b	INSTALLATION OF 150mmØ AIR RELEASE ASSEMBLY	1.00	assy.	189,111.74	189,111.74
SPL-19a	INSTALLATION OF 300mm BLOW-OFF ASSEMBLY	8.00	assy.	674,994.53	5,399,956.24
SPL-19b	INSTALLATION OF 250mm BLOW-OFF ASSEMBLY	1.00	assy.	647,028.55	647,028.55
SPL-19c	INSTALLATION OF 150mm BLOW-OFF ASSEMBLY	1.00	assy.	146,734.26	146,734.26
SPL-20	HYDROTESTING & DISINFECTION WORKS	22,881.00	ln.m.	19.56	447,583.01
SPL-21	CONSTRUCTION OF 1.00M X 1.50M CONCRETE VALVE BOX W/ PREFAB DI COVER	51.00	assy.	158,176.62	8,067,007.41
SPL-22	CONSTRUCTION OF 1.50M X 1.50M CONCRETE VALVE BOX W/ PREFAB DI COVER	19.00	assy.	245,349.84	4,660,647.04
	SUB - TOTAL				32,174,073.51
	RESTORATION WORKS				
200	AGGREGATE SUBBASE COURSE	8,408.51	cu.m.	745.28	6,266,658.78
201	AGGREGATE BASE COURSE	8,408.51	cu.m.	1,576.08	13,252,508.59
SPL-23	INSTALLATION OF DOWEL BAR FOR ITEM 311 RESTORATION	34,507.66	kgs.	66.07	2,279,964.64
SPL-24	SUPPLY/INST./TESTING OF LOOP CONN. & CUSTOMIZING OF LOOP DETECTOR AT TRAFFIC LIGHT	2.00	each	59,831.45	119,662.89
311 (1)b	PCC PAVEMENT (PLAIN) - CONVENTIONAL METHOD, 230MM THICK	7,749.40	sq.m.	1,370.18	10,618,095.77
302a	BITUMINOUS TACK COAT (EMULSIFIED ASPHALT)	2.67	m.L	73,834.11	197,372.97
310(b)	BITUMINOUS CONCRETE SURFACE COURSE (100MM THICK)	1,992.85	sq.m.	1,350.12	2,690,585.00
310(b)	BITUMINOUS CONCRETE SURFACE COURSE (150MM THICK)	2,934.80	sq.m.	1,983.19	5,820,275.97
612(1)	REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (WHITE)	2,700.00	sq.m.	934.70	2,523,680.83

ITEM No.	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
	SUB - TOTAL				43,768,805.44
	MISCELLANEOUS WORKS				
SPL-25	SUPPLY AND INSTALLATION OF ELECTRICAL FACILITIES & ACCESSORIES AT 700MMØ FLOWMETER LOCATED AT PIPELINE RECE	1.00	unit	24,191.37	24,191.37
SPL-26	ACQUISITION OF PRIVATE LOT FOR THE INSTALLATION OF PIPELINE	64.00	sq.m.	3,906.71	250,029.36
SPL-27	SUPPLY & DELIVERY & INSTALLATION OF MECHANICAL FLOWMETERS FOR BLOW-OFF	10.00	each	265,459.19	2,654,591.94
	ACQUISITION OF SERVICE VEHICLE	3.00	each	1,400,000.00	4,200,000.00
	SUB - TOTAL				7,128,812.67
TOTAL COST					516,536,555.55

PREPARED BY:

 ENGR. MARK ALVIN CAMPS
 Sr. QUANTITY SURVEYOR - ESTI

CHECKED & VERIFIED BY:

 ENGR. FERRY PICCIO
 VP FOR CONSTRUCTION - ESTI

NOTED BY:

 ENGR. JOSEPH Y. SO
 ENGINEERING HEAD - ESTI