

ADDENDUM NO. 2
FOR
CONTRACT
FOR
ENGINEERING GEOLOGICAL SURVEY WORKS
Package 1 (Km0+000-Km8+000)
FOR
Detailed Design For DaNang - QuangNgai Expressway Development Project

This Addendum No. 2 is made on the 29th day of the month of August, 2013 between Joint Venture of NK - NEC - Chodai - TEC (hereinafter referred to as the “Consultant”) on the one part, and E&R Engineering Consultant Joint Stock Company (hereinafter referred to as the “Sub-Consultant”) on the other part, concerning the Contract dated 18 June 2012 and Addendum No.1 dated 31 October 2012 for Engineering Geological Survey for Package 1 (Km0+000-Km 8+000) (hereinafter referred to as the “Original Contract”).

WITNESSETH:

WHEREAS, On the dated 15 November 2011, The Consultant and Project Management Unit 85 (PMU85) signed the contract No.01/DD- EDDQP/2011 for Consulting Services for Detailed Design for Da Nang - Quang Ngai Expressway Development Project.

WHEREAS, It was mutually agreed in Clause 2.14 in the Contract: “In case some modification and/or variation are requests made by Consultant and/or Client, those works shall be paid by Consultant basing on the unit price in BOQ and the actual quantity”.

WHEREAS, The Acceptance Minutes for Engineering Geological survey for Package 1, Hoa Vang Section (Km0+000-Km8+000), which was approved by PMU85 on Minutes No.10/DQEP-DD dated July 15th, 2013; Minutes No.26/DQEP-DD dated July 16th, 2013 and by the Consultant on Minutes No.08/DQEP-DD dated July 22, 2013.

NOW THEREFORE, it is mutually agreed by and between the parties hereto as follows:

Followings shall be supplemented or modified in this Addendum. Clauses not specifically supplemented or modified shall remain in effect.

Part II. General Conditions of Contract

2.1. Definitions

Add new items as follows:

- (s) The “Prime Contract” shall mean the contract for Consulting Services for Detailed Design for Da Nang - Quang Ngai Expressway Development Project between PMU85 and the Consultant on 15 November 2011.
- (t) The “Original Contract” shall mean the contract for Engineering Geological Survey Work, Package 1 (Km0+000-Km8+000) between the Consultant and the Sub-consultant dated 18 June 2012 accompanied with Addendum No.1 dated 31 October 2012.
- (u) The “Original Contract Price” shall mean the sum named in the Original Contract as the Contract Price.
- (v) The “Original Scope” shall mean the scope of works stipulated in the Terms of Reference (TOR)



in the Original Contract.

- (w) The “Adjusted Quantity” shall mean actual quantity of boreholes stipulated in Appendix G of the Original Contract, including boring and testing works. No amendment of the Contract is required.
- (x) The “Additional Quantity” shall mean additional boreholes, which is not included in Appendix G of the Original Contract, to be carried out under the Consultant’s instructions, those are included boring, testing and other related works. Amendment of the Contract is required.
- (y) The “Additional Amount” shall mean the sum of amount of additional quantity named in Appendix E of this Addendum Contract.

2.12. Terms of Payment.

For Clause 2.12 of Contract dated 18 June 2012 and Clause 1 of Addendum No.1 dated 31 October 2012, delete the whole sentences and replace with the following sentence:

- 1) This is a unit rate contract.
- 2) As soon as the Works has been started, the Sub-consultant shall submit to the Consultant, the invoices of amount payable. After checking the invoices, the Consultant shall pay the Sub-Consultant in respect of the Works. The Consultant reserves the right to exclude such items that are not considered to be authenticated, from the payment.
- 3) First payment equivalent to Forty percent (40%) of the Original Contract Price shall be made to the Sub-consultant after approval by the Consultant for both of the following items:
 - Completion of mobilization of personnel and equipment at the Site,
 - Approval of the work plan by the Client.

The payment is equivalent to Seventy Four thousand and Six hundred Ten point Eight US dollars (USD 74,610.8)

- 4) Second payment equivalent to Twenty percent (20%) of the Original Contract Price shall be made to the Sub-consultant upon acceptance of the outcome of geological investigation for the embankment and culvert by the Consultant. The payment is equivalent to Thirty Seven Thousand and Three hundred Five point Four US dollars (USD 37,305.4).
- 5) Third payment equivalent to Twenty percent (20%) of the Original Contract Price shall be made to the Sub-consultant upon acceptance of the outcome of geological investigation for the bridges by the Consultant. The payment is equivalent to Thirty Seven Thousand and Three hundred Five point Four US dollars (USD 37,305.4).
- 6) Forth payment shall be paid for the remaining amount of the Original Contract after adjustment in accordance with performed work quantities for the Original Scope including the Adjusted Quantity. The adjusted payment is equivalent to Thirty Thousand and Nine Hundred Fifty Eight Point Four US dollars (USD 30,958.4).
- 7) Fifth payment: One Hundred Six Thousand and Three Hundred Seventy US dollars (USD 106,370.0) which is equivalent to Fifty percent (50%) of the Additional Amount shall be made to

the Sub-consultant upon acceptance of the outcome by the Consultant base on the acceptance of the outcome by the Client.

- 8) Final payment: One Hundred Six Thousand and Three Hundred Seventy US dollars (USD 106,370.0) which is equivalent to Fifty percent (50%) of the Additional Amount shall be made to the Sub-consultant within six (06) months since the acceptance minutes for engineering geological survey is approved by the Client.
- 9) No extra payments in respect of overtime, holiday work, additional equipment, materials and facilities, or special conditions of hardship shall be claimed by the Sub-consultant beyond the Contract price.
- 10) Payment procedure is provided in Appendix-B. Remittance charge shall be paid by the Sub-consultant.
- 11) The Sub-consultant shall issue VAT invoice for each payment.

Appendix E - Priced Bill of Quantities

Delete Table of Bill of Quantities (BOQ) entirely and replace with the following BOQ:

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**Appendix-E: Priced Bill of Quantities (Addendum No.2)
Package 1 (Km0+000-Km8+000, Hoa Vang Section)**

No.	Item	Unit	Unit Price	Original Scope				Amount				Additional Scope				Total		Remark									
				Quantity		Contract	Actual	Contract	Actual	Addendum No.1		PKGI	LRB02 Bridge	Re-check soft soil & change location of bridge (11c)	Amount	Quantity	Amount										
				Original	Supplemental					Total	(6)								(7)	(8)	(9)+*5	(10)+*8	(11a)	(11b)	(11c)	(12)+*11	(13)+*11
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)+*5	(10)+*8	(11a)	(11b)	(11c)	(12)+*11	(13)+*11	(14)+*10+12												
A	Expressway																										
1	1.0 Main Line (ML) Normal Embankment and Exc	(lm)	44.7	84	77.70	-	77.70	5,169.36	4,769.87	90.50	-	-	9,045.51	168.20	13,815.38												
1.1	1.1 Mechanical Boring	(points)	20.25	48	44.00	-	44.00	3,548.80	3,473.19	43.00	-	-	4,045.35	7.51	7,518.54												
1.2	1.2 Standard Penetration Test (SPT)	(nos)	39.92	-	-	-	-	-	-	-	-	-	-	-	-												
1.3	1.3 Sampling	(nos)	57.19	-	-	-	-	-	-	-	-	-	-	-	-												
1.4	1.4 Vane Shear Test (VST)	(nos)	36.88	12	11.00	-	11.00	442.56	405.68	5.00	-	-	181.40	16.00	590.08												
1.5	1.5 Undisturbed Sample Test	(nos)	61.19	-	-	-	-	-	-	-	-	-	-	-	-												
1.6	1.6 Disturbed Sample Test	(nos)	61.19	-	-	-	-	-	-	-	-	-	-	-	-												
1.7	1.7 Test for Rock	(nos)	200.14	-	-	-	-	-	-	-	-	-	-	-	-												
1.8	1.8 Unconfined Compression Test	(nos)	89.28	-	-	-	-	-	-	-	-	-	-	-	-												
1.9	1.9 Consolidation Test (Cv)	(nos)	89.28	-	-	-	-	-	-	-	-	-	-	-	-												
1.9	1.9 Triaxial Compression Test (UU)	(nos)	200.14	-	-	-	-	-	-	-	-	-	-	-	-												
1.9	1.9 Triaxial Compression Test (CU)	(nos)	200.14	-	-	-	-	-	-	-	-	-	-	-	-												
3	3.0 Bridge (BR)																										
3.1a	3.1a Mechanical Boring (On Shore)	(lm)	56.63	562.00	562.00	217.40	779.40	31,826.06	44,137.42	87.00	306.00	-	29,617.49	1,302.40	73,754.91												
3.1b	3.1b Mechanical Boring (Off Shore)	(lm)	86.1	120.00	73.50	-	73.50	10,332.00	6,328.35	-	242.00	-	27,724.20	395.50	34,052.55												
3.1c	3.1c Floating Equipment	(nos)	955.57	2.00	1.00	-	1.00	1,911.14	955.57	-	1.00	-	1,911.14	3.00	2,866.71												
3.2	3.2 Standard Penetration Test (SPT)	(points)	20.25	333.00	259.00	124.00	383.00	6,745.25	7,755.75	38.00	168.00	-	6,297.75	694.00	14,053.50												
3.3	3.3 Sampling	(nos)	39.92	20.00	-	-	-	798.40	-	-	-	-	-	-	-												
3.4	3.4 Vane Shear Test (VST)	(nos)	57.19	20.00	16.00	23.00	39.00	1,143.80	2,230.41	35.00	-	-	3,545.78	101.00	5,776.19												
3.5	3.5 Undisturbed Sample Test	(nos)	36.88	84.00	78.00	48.00	126.00	3,097.92	4,646.88	8.00	-	-	1,564.56	163.00	6,011.44												
3.6	3.6 Disturbed Sample Test	(nos)	110.58	-	-	14.00	14.00	-	1,548.12	-	40.00	-	4,423.20	54.00	5,971.32												
3.7	3.7 Test for Rock	(nos)	61.19	-	-	-	-	-	-	18.00	-	-	1,896.89	31.00	1,896.89												
3.8	3.8 Unconfined Compression Test	(nos)	61.19	-	-	-	-	-	-	12.00	-	-	856.66	14.00	856.66												
3.9	3.9 Consolidation Test (Cv)	(nos)	89.28	-	-	-	-	-	-	-	-	-	-	-	-												
3.10	3.10 Triaxial Compression Test (UU)	(nos)	200.14	-	-	-	-	-	-	-	-	-	-	-	-												
3.11	3.11 Triaxial Compression Test (CU)	(nos)	200.14	-	-	-	-	-	-	-	-	-	-	-	-												
3.12	3.1 Water Quality Test	(nos)																									
3A	3A Viaduct and River Bridge																										
3A.1a	3A.1a Mechanical Boring (On Shore)	(lm)	56.63	436	436.00	8.00	444.00	24,690.68	25,143.72	87.00	306.00	130.00	29,617.49	967.00	54,761.21												
3A.1b	3A.1b Mechanical Boring (Off Shore)	(lm)	86.1	120	73.50	-	73.50	10,332.00	6,328.35	-	242.00	80.00	27,724.20	395.50	34,052.55												
3A.1c	3A.1c Floating Equipment	(nos)	955.57	2	1.00	-	1.00	1,911.14	955.57	-	1.00	-	1,911.14	3.00	2,866.71												
3A.2	3A.2 Standard Penetration Test (SPT)	(points)	20.25	287	213.00	-	213.00	5,811.75	4,313.25	38.00	168.00	105.00	6,297.75	524.00	10,611.00												
3A.3	3A.3 Sampling	(nos)	39.92	20	-	-	-	798.40	-	-	-	-	-	-	-												
3A.4	3A.4 Vane Shear Test (VST)	(nos)	57.19	20	16.00	23.00	39.00	1,143.80	2,230.41	35.00	-	-	3,545.78	101.00	5,776.19												
3A.5	3A.5 Undisturbed Sample Test	(nos)	36.88	72	66.00	-	66.00	2,655.36	4,646.88	8.00	-	-	1,564.56	163.00	6,011.44												
3A.6	3A.6 Disturbed Sample Test	(nos)	110.58	-	-	14.00	14.00	-	1,548.12	-	40.00	-	4,423.20	54.00	5,971.32												
3A.7	3A.7 Test for Rock	(nos)	61.19	-	-	-	-	-	-	15.00	-	-	1,713.32	28.00	1,713.32												
3A.8	3A.8 Unconfined Compression Test	(nos)	61.19	-	-	-	-	-	-	8.00	-	-	611.90	10.00	611.90												
3A.9	3A.9 Consolidation Test (Cv)	(nos)	89.28	-	-	-	-	-	-	-	-	-	-	-	-												
3A.10	3A.10 Triaxial Compression Test (UU)	(nos)	200.14	-	-	-	-	-	-	-	-	-	-	-	-												
3A.11	3A.11 Triaxial Compression Test (CU)	(nos)	200.14	-	-	-	-	-	-	-	-	-	-	-	-												
3B	3B Overpass																										
3B.1	3B.1 Mechanical Boring (On Shore)	(lm)	56.63	66	66.00	209.40	275.40	3,737.58	15,595.90	-	-	-	428.33	275.40	15,595.90												
3B.2	3B.2 Standard Penetration Test (SPT)	(points)	20.25	34	34.00	106.00	140.00	688.50	2,835.00	-	-	-	-	140.00	2,835.00												
3B.3	3B.3 Sampling	(nos)	39.92	-	-	-	-	-	-	-	-	-	-	-	-												
3B.4	3B.4 Vane Shear Test (VST)	(nos)	57.19	-	-	23.00	23.00	-	1,315.37	-	-	-	-	23.00	1,315.37												
3B.5	3B.5 Undisturbed Sample Test	(nos)	36.88	8	8.00	37.00	45.00	295.04	1,659.60	-	-	-	-	45.00	1,659.60												
3B.6	3B.6 Disturbed Sample Test	(nos)	110.58	-	-	-	-	-	-	-	-	-	-	-	-												
3B.7	3B.7 Test for Rock	(nos)	61.19	-	-	-	-	-	-	3.00	-	-	183.57	3.00	183.57												
3B.8	3B.8 Unconfined Compression Test	(nos)	61.19	-	-	-	-	-	-	4.00	-	-	244.76	4.00	244.76												
3B.8	3B.8 Consolidation Test (Cv)	(nos)	89.28	-	-	-	-	-	-	-	-	-	-	-	-												
3D	3D Piyover																										
3D.1	3D.1 Mechanical Boring (On Shore)	(lm)	56.63	60	60.00	-	60.00	3,788.32	4,558.50	-	-	-	0.00	60.00	4,558.50												
3D.2	3D.2 Standard Penetration Test (SPT)	(points)	20.25	12	12.00	18.00	30.00	3,397.80	607.50	-	-	-	-	30.00	3,978.80												
3D.3	3D.3 Sampling	(nos)	39.92	-	-	-	-	-	-	-	-	-	-	-	-												

15/11/2023

No.	Item	Unit	Unit Price	Original Scope			Amount			Additional Scope			Total		Remark		
				Quantity			Contract	Actual	Total	PKG1	LRB/2 Bridge	Re-check soft soil & change location of bridge	Quantity	Amount		Quantity	Amount
				Contract	Original	Supplemental											
3D.4	Undisturbed Sample Test	(nos)	57.19	-	-	-	-	-	-	-	-	-	-	-	-	-	
3D.5	Disturbed Sample Test	(nos)	36.88	4	4.00	11.00	15.00	147.52	553.20	-	-	-	-	15.00	553.20	-	
3D.6	Test for Rock	(nos)	110.58	-	-	-	-	-	-	-	-	-	-	-	-	-	
3D.7	Unconfined Compression Test	(nos)	61.19	-	-	-	-	-	-	-	-	-	-	-	-	-	
3D.8	Consolidation Test (Cv)	(nos)	61.19	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	Drainage Culvert																
4.1	Mechanical Boring	(lm)	44.7	45	45.00	162.50	207.50	2,718.78	1,331,24.25	24,387.98	24,387.98	283.20	490.70	37,512.23	21,954.29	-	
4.2	Standard Penetration Test (SPT)	(points)	20.25	24	24.00	84.00	108.00	486.00	2,187.00	140.00	2,835.00	140.00	248.00	5,022.00	5,022.00	-	
4.3	Sampling	(nos)	39.92	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.4	Vane Shear Test (VST)	(nos)	57.19	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.5	Undisturbed Sample Test	(nos)	36.88	6	6.00	18.00	24.00	221.28	885.12	35.00	1,397.20	35.00	43.00	1,716.56	4,803.96	-	
4.6	Disturbed Sample Test	(nos)	110.58	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.7	Test for Rock	(nos)	61.19	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.8	Unconfined Compression Test	(nos)	61.19	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.9	Consolidation Test (Cv)	(nos)	61.19	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.10	Triaxial Compression Test (UU)	(nos)	89.28	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.11	Triaxial Compression Test (CU)	(nos)	200.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	Underpans																
5.1	Mechanical Boring	(lm)	44.7	135	0.00	0.00	0.00	6,034.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5.2	Standard Penetration Test (SPT)	(points)	20.25	72	0.00	0.00	0.00	1,458.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5.3	Sampling	(nos)	39.92	8	0.00	0.00	0.00	319.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5.4	Vane Shear Test (VST)	(nos)	57.19	8	0.00	0.00	0.00	457.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5.5	Undisturbed Sample Test	(nos)	36.88	18	0.00	0.00	0.00	663.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5.6	Disturbed Sample Test	(nos)	100.58	-	-	-	-	-	-	-	-	-	-	-	-	-	
5.7	Test for Rock	(nos)	61.19	-	-	-	-	-	-	-	-	-	-	-	-	-	
5.8	Unconfined Compression Test	(nos)	61.19	-	-	-	-	-	-	-	-	-	-	-	-	-	
5.9	Consolidation Test (Cv)	(nos)	89.28	-	-	-	-	-	-	-	-	-	-	-	-	-	
5.10	Triaxial Compression Test (UU)	(nos)	89.28	-	-	-	-	-	-	-	-	-	-	-	-	-	
5.11	Triaxial Compression Test (CU)	(nos)	200.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	Main Lme (ML, Softground Section (SG))																
8.1	Mechanical Boring	(lm)	44.7	720	720.00	7.00	727.00	32,184.00	74,912.24	79,922.71	90.00	1,024.00	1,841.00	154,834.95	82,292.70	-	
8.2	Standard Penetration Test (SPT)	(points)	20.25	384	384.00	4.00	388.00	7,776.00	7,857.00	11,016.00	32.00	512.00	932.00	18,875.00	18,875.00	-	
8.3	Sampling	(nos)	39.92	142	142.00	-	142.00	5,668.64	5,668.64	4,191.60	24.00	81.00	247.00	9,860.24	9,860.24	-	
8.4	Vane Shear Test (VST)	(nos)	57.19	142	142.00	-	142.00	8,120.98	8,120.98	9,895.87	16.00	157.00	315.00	18,014.85	18,014.85	-	
8.5	Undisturbed Sample Test	(nos)	36.88	96	96.00	1.00	97.00	3,500.48	3,577.56	1,696.48	46.00	143.00	143.00	5,273.84	5,273.84	-	
8.6	Disturbed Sample Test	(nos)	61.19	116	116.00	-	116.00	7,098.04	6,057.81	675.09	11.00	110.00	110.00	6,730.90	6,730.90	-	
8.7	Consolidation Test (Cv)	(nos)	61.19	116	116.00	-	116.00	7,098.04	4,834.01	675.09	11.00	110.00	110.00	5,507.10	5,507.10	-	
8.8	Unconfined Compression Test	(nos)	89.28	116	116.00	-	116.00	10,356.48	1,666.52	982.08	11.00	110.00	110.00	2,676.40	2,676.40	-	
8.9	Triaxial Compression Test (UU)	(nos)	200.14	58	23.00	-	25.00	11,608.12	4,603.22	1,000.70	5.00	28.00	28.00	5,603.92	5,603.92	-	
8.10	Existing Road (ER)																
15.1	Benckman Test	(nos)	1,722.86	1	-	-	-	1,722.86	1,722.86	0.00	-	-	-	0.00	0.00	-	
C	Mobilization and Temporary Camp Yard Floating Equipment (for Off Shore Boring)	LS	1,722.86	1	-	-	-	1,722.86	1,722.86	0.00	-	-	-	1,722.86	1,722.86	-	
D	Reporting	LS	1,722.86	1	-	-	-	1,722.86	1,722.86	2,476.84	-	-	-	4,199.70	4,199.70	-	
	SUB TOTAL							169,570.00	163,800.00	193,400.00	-	-	-	357,200.00	357,200.00	-	
	VAT							16,957.00	16,380.00	19,340.00	-	-	-	35,720.00	35,720.00	-	
	TOTAL							186,527.00	180,180.00	212,740.00	-	-	-	392,920.00	392,920.00	-	

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Handwritten signatures and initials are present at the bottom right of the page.

All contents of the Contract and Addendum No.2, which are not specifically modified by this ADDENDUM NO.2 shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the parties hereto have executed this ADDENDUM NO.2 in duplicate in English, in their respective names as of the day and year first above written.

For and on behalf of the Consultant

For and on behalf of the Sub-Consultant



Ichizuru ISHIMOTO
Project Manager
JOINT VENTURE OF NK - NEC - CHODAI
- TEC.



Nguyễn Quang Loc
President
E&R ENGINEERING CONSULTANTS
JSC

