
Vinh, December 31, 2014

**ACCEPTANCE MINUTES OF ADDITIONAL WORKS FOR
DETAILED DESIGN CONSULTING SERVICE CONTRACT OF
DANANG – QUANG NGAI EXPRESSWAY DEVELOPMENT PROJECT**

Pursuant to the followings:

The Consultancy Service Contract No.1/DD/EDDQP/2011 which was signed between Project Management Unit No. 85 (PMU85) and Joint Venture of Nippon Koei Co., Ltd; Nippon Engineering Consultants Co., Ltd.; Chodai Co., Ltd and Thai Engineering Consultants Co., Ltd. (Joint Venture of NK-NEC-CHODAI-TEC) (hereinafter called Joint Venture of NK-NEC-CHODAI-TEC) on 15 November 2011, and subsequent Contract Addendum No.1 dated 27th December 2011; Contract Addendum No.2 dated 29th November 2012; Contract Addendum No.3 dated 30th January 2013; Contract Addendum No.4 dated 26th April 2013, Contract Addendum No.5 dated 31st July 2013, Contract Addendum No.6 dated 9th January 2014, Contract Addendum No.7 dated 29th December 2014,

The Addendum No.8 (additional cost for performing the tasks arisen out of TOR of the Contract) dated 31 December 2014 of the Contract No.1/DD/EDDQP/2011 signed on 15/11/2011

The Letter of MOT no.15696/BGTVT-CQLXD dated 9/12/2014 and letter no.16350/BGTVT-CQLXD dated 22/12/2014 of MOT regarding to agreeing in principle and authorizing PMU85 for approval of the additional cost for Detailed Design Consultancy Service Contract;

Decision no. 2218/QĐ-BQL dated 26/12/2014 of PMU85 regarding to approving the additional cost for Detailed Design Consultancy Service Contract;

No objection letter of World Bank dated 31/12/2014 on the Addendum 8 and contents of additional cost for Detailed Design Consultancy Service Contract

Contents and quantities of survey works and detailed design works prepared and submitted by the Joint Venture of NK-NEC-CHODAI-TEC and approved by the appropriate authorities.

PMU85 and the Joint Venture of NK-NEC-CHODAI-TEC agreed to prepare this Minutes for accepting the additional works arisen out of the terms of reference of the original contract) as signed in the Addendum 8.

1. Members in the Acceptance

a) Project Owner: Project Management Unit– PMU85:

Mr. Pham Duy Khánh	Deputy General Director, PMU85
Mr. Phan Duy Khánh	Project Manager, PMU85
Mr. Lê Trọng Độ	Vice Project Manager, PMU85
Mr. Lê Anh Tuấn	Project staff, PMU85

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b) The detailed design Consultant: Joint Venture of Nippon Koei Co., Ltd; Nippon Engineering Consultants Co., Ltd.; Chodai Co., Ltd and Thai Engineering Consultants Co., Ltd. (Joint Venture of NK-NEC-CHODAI-TEC).

Mr. Ishimoto Ichizuru

Project Manager

2. Objects to be accepted

The work quantities arisen out of original contract is the additional works mentioned in Addendum No.8, Items to be accepted are:

- VO No.1: Modification of Alignment
- VO No.2: Additional topographic and environmental survey at populous residential area
- VO No.3: Additional length of soft ground sections
- VO No.5: Re-alignment at Major Cemeteries
- VO No.6: Preliminary Design of Dung Quat 2 IC
- VO No.7: Change of Pavement Structure, Application of ATB/CTB
- VO No.8: Relocation of Quang Ngai North IC
- VO No.9: Deduction of RAP preparation works
- VO No.10: Additional Office Operation Cost

3. Time of Acceptance

Start: 14h Date 31 Month 12 Year 2014

Finish: 17h Date 31 Month 12 Year 2014

Location: PMU85 Vinh Head Office

4. Contents for completed works

The parties compared the works performed by the Consultant and requirements mentioned in the Term of Reference stated in the Addendum (TOR), and agreed to accept the completed works as follows:

4.1. Implementation time for additional works.

The Additional works were performed as request of the project owner, the Donor and requirements of additional works during the consultancy service contract implementation. These works were carried out parallel with the implementation of the works of the original contract. The time for additional works is listed as follows:

- VO 1.1: performed in 9 months from 01/08/2011 to 30/04/2012.
- VO 1.2: performed in 2 months from 01/04/2012 to 31/05/2012.
- VO 1.3: performed in 13 months from 01/06/2012 to 30/06/2013.
- VO 1.5: performed in 7 months from 01/10/2012 to 30/04/2013.
- VO 1.6: performed in 1.4 months from 20/04/2013 to 31/05/2013.
- VO 1.7: performed in 0.7 month from 10/05/2013 to 31/05/2013.
- VO 1.8: performed in 3.months from 20/12/2012 to 10/04/2013.

(Detailed as in Appendix 1 - Time for additional works)

4.2. Additional topographic survey and geotechnical survey:

The consultant completed the additional topographic survey and geotechnical survey in accordance with the requirements in the Addendum 8 (Annex 1: List Additional

works), in the original contract and ensure the data and quality for modification of detailed design :

a. Quantity of additional Topographic Survey:

No	Description	Unit	Quantity
1	Additional topographic survey at populous residential area(1/1000)	ha	87.228
2	Additional topographic survey at Major Cemeteries(1/1000)	ha	49.68
3	Additional topographic survey at Dung Quat 2 Interchange(1/500)	ha	18.11
4	Additional topographic survey for relocation Quảng Ngãi North Interchange(1/500)	ha	87.27

Details of quantity mentioned in the Appendix – 3: Quantity of additional Topographic Survey .

b. Quantity of additional Geotechnical Survey:

No	Description	Boring hole	Boring length
1	Additional Geotechnical Survey for softground sections	131	2,303.60 mét
2	Additional Geotechnical Survey for the re-aligned sections at the Cemeteries	57	934.60 mét
3	Additional Geotechnical Survey for designing relocation Quảng Ngãi North Interchange	6	65.40 mét

Details of quantity mentioned in the Appendix – 4: Quantity of additional Geotechnical Survey.

c. Quantity and Quality: Quantity: 15 sets in English and Vietnamese were submitted. Quality meets the requirement of the contract.

4.3. Additional detailed design:

- VO.1: Modification of Alignment:

The Consultant carried out basic design for eight (8) aligned sections and the basic design was submitted and approved by the Decision no 1534/QĐ-BGTVT dated 05/6/2013

- VO.3: Additional length of soft ground sections:

The Consultant prepared the Basic Design and detailed design for the newly-identified soft ground sections and the detailed design of the packages where there are additional geotechnical survey were approved as follows:

- + Package 1 approved by the Decision No.410/QĐ-VEC dated 21/8/2013.
- + Package 2 approved by the Decision No.398/QĐ-VEC dated 15/8/2013.
- + Package A2 approved by the Decision No.307/QĐ-VEC dated 9/7/2013.
- + Package A3 approved by the Decision No.403/QĐ-VEC dated 20/8/2013.

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- VO.5: Re-alignment at Major Cemeteries:

The Consultant studied appropriateness of the position of the alignments for the cemeteries along the road and prepared the the alignment alternative study. The modification for alignment at the Cemeteries for the sectionz Km0+518 - Km2+601 and Km26+350 - Km31+560 was approved by MOT in the Decision no.1534/QĐ-BGTVT dated 05/6/2013

- VO.6: Preliminary Design of Dung Quat 2 IC:

The Consultant studied the layout of the interchange, and implemented the preliminary design of the interchange and it was approved by MOT in the Decision no.1534/QĐ-BGTVT dated 05/6/2013

- VO.7: Change of pavement structure, applicatuion of ATB/CTB:

The Consultant carried out the additional pavement design with application of ATB/CTB.-ATB for the softground sections and CTB for non-softground sections.

- VO.8: Relocation of Quang Ngai North IC:

The Consultant submitted the detailed design of Package A4 (including of Quang Ngai North Interchange) by the letter no.DQEDD-PMU85-571-12 dated 30/10/2012.

The Consultant modified and submitted the completed report of Package A4 by the letter no.DQEDD-PMU85-68-13 dated 31/1/2013, and it was approved by VEC in the Decision no . 93/QĐ-VEC dated 8/3/2013.

The Consultant did design Quang Ngai North Interchange two times.

- Quantity of submitted report: The Consultant submitted enough reports as requirements

4.4. Updating RAP:

- It is confirmed the performed quantity as in the letter no.DQEDD-PMU85-116-14 dated 16/12/2014 and it is agreed to terminate this scope of work .

- It is agreed to deduct the Man-month of the related experts based on the uncompleted work of RAP including of 1 man-month of international expert and 4.5 man-months for domestic experts.

4.5. Stafss mobilization for additional works:

It is confirmed and agreed with the quantity and time for the domestic and international staffs mobilized for the additional works as in the Addendum 8 as follows :

a. International staffs

No.	Code	Position	Name	No.	VO No.									Additional MM	Claimed Total MM
					1	2	3	5	6	7	8	9			
				(a)									(b)	(c)=(a)+(b)	
1	I1	Project Manager/Team Leader	Ichizuru Ishimoto	14	0.7		0.1	0.2	0.1		0.2		1.30	15.30	
2	I2	Senior Highway Engineer	Takayasu Nagai	13	1.2		0.3	0.2	0.2	0.2	0.2		2.30	15.30	
5	I5	Highway Engineer 1	Koji Nakai	12	1.2								1.20	13.20	
8	I8	Highway Engineer 2	Naresh Sthapit	12	0.45		0.5	0.5		0.5	0.3		2.25	14.25	
13	I13	Tunnel Engineer	Wako Noto	4	0.5								0.50	4.50	
20	I20	Survey Engineer	Masashi Suzuki	6		0.036							0.036	6.04	
21	I21	Soil/Getechnical Engineer 2	Ichiro Noguchi	5			1.0	0.5			0.1		1.60	6.60	
34	I34	Construction Planner/Cost Estim	Masanori Nakagi	11			0.2			0.1			0.30	11.30	
37	I37	Resettlement Specialist	Vu Ngoc Long	10								-1	-1.00	9.00	
38	I38	T raining Specialist	Noppong Unhabhokha	4									0.00	4.00	
Total				239	4.05	0.036	2.10	1.40	0.30	0.80	0.80	-1.00	8.49	243.49	

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b. Domestic Staffs

No.	Code	Position	Name	No.	VO No.									Additional MM	Claimed Total MM
					1	2	3	5	6	7	8	9			
				(a)										(b)	(c)=(a)+(b)
1	L1	Co-Project Manager	Nguyễn Lam Hồng	14	0.6			0.1	0.1	0.1	0.1			1.00	15.00
2	L2	Highway Engineer 1 (Geometric)	Phạm Việt Hùng	13	1.0						0.5			1.50	14.50
3	L3	Highway Engineer 2 (Road Structure)	Hà Phước Thuận	13	1.0				0.5		0.5			2.00	15.00
5	L5	Bridge/Structure Engineer 1 (Superstructure)	Nguyễn Văn Lê	13			0.5							0.50	13.50
6	L6	Bridge/Structure Engineer 2 (Substructure)	Cát Trọng Tiến	13										0.00	13.00
7	L7	Highway Engineer 3 (Geometric)	Hoàng Đức Châu	12	1.0			0.7			0.5			2.20	14.20
8	L8	Highway Engineer 4 (Road Structure)	Nguyễn Nho Sĩ	12	1.0		0.5		0.5	0.3				2.30	14.30
11	L11	Highway Engineer 5 (Geometric)	Nguyễn Vũ Mạnh	12	1.0				0.4					1.40	13.40
19	L19	Softground Treatment Specialist	Bùi Xuân Hạnh	3			4.0							4.00	7.00
25	L25	Senior Surveyor 1	Lê Văn Thủ	6		0.18		2.0	0.5		0.5			3.18	9.18
29	L29	Soil/Getechnical Engineer 3	Lê Xuân Vũ	4			2.0	1.0			0.4			3.40	7.40
30	L30	Soil/Getechnical Engineer 4	Trần Duy Khiêm	4			1.5							1.50	5.50
32	L32	Hydraulic Engineer 1	Nguyễn Minh Lương	3					0.4					0.40	3.40
52	L52	Senior Environmental Specialist	Ngô Thế Hùng	8		0.72								0.72	8.72
54	L54	Senior Resettlement Specialist	Nguyễn Mạnh Hà	14								-1.5	-1.50	12.50	
55	L55	Social and Resettlement Specialist	Lâm Đình Uy	14								-1.5	-1.50	12.50	
56	L56	Cultural and Archaeological Specialist	Trần Văn Bình	14								-1.5	-1.50	12.50	
57	L57	Training Specialist	To be named	4										0.00	4.00
Total				357	5.60	0.90	8.50	3.80	2.40	0.40	2.50	-3.00	19.60	376.60	

Detailed of mobilization status as in Appendix -2: Consultant's Mobilization for Additional works.

4.6. Additional Office Operation Cost:

Additional Office Operation Cost will be paid in portion with 5% of total additional costs for the additional works .

5. Conclusion

- Accepted the works done by the Consultants in accordance with TOR of the Contract and Addendum No.8 as above mentioned and attached Appendix. The completed works met the requirements of quality, technical requirements of the contract as well as the quantity of submittals ;

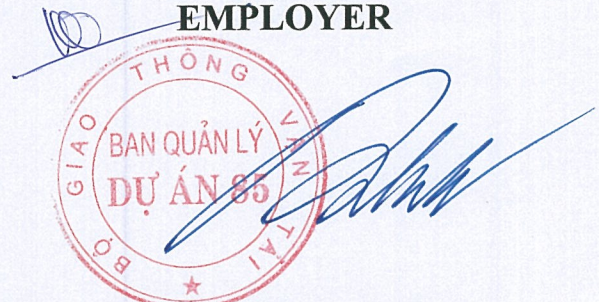
- The parties agreed with the contents of the minutes that is basis for acceptance for payment for the sixth payment and additional cost of the Consultant in the Contract No. 01/DD-EDDQP/2011 signed on 15/11/2011 by PMU85 and the Joint Venture of Nippon Koei Co., Ltd; Nippon Engineering Consultants Co., Ltd.; Chodai Co., Ltd and Thai Engineering Consultants Co., Ltd. .

THE CONSULTANT



Ishimoto Ichizuru

THE REPRESENTATIVE OF EMPLOYER



Phạm Duy Khanh

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Appendix-1: Working record for additional works

No.	Additional Works	2011												2012												2013				
		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
1	Modification of Alignment	STP-A																												
		DSN-A																												
2	Additional Topographic Environmental Survey at Populous Residential Areas	STP-B																												
3	Additional Length of Softground Sections	SGL-A																												
		DSN-B																												
5	Re-alignment at Major Cemeteries	STP-C																												
		SGL-B																												
		DSN-C																												
6	Preliminary Design of Dung Quat 2 IC	STP-D																												
		DSN-D																												
7	Change of Pavement Structure, Application of ATBCTB	DSN-E																												
8	Relocation of Quang Ngai North IC	STP-E																												
		SGL-C																												
		DSN-F																												

Appendix-2: Consultant's Mobilization Record for Additional Works

(1) International staffs

No. Code	Position and name	No.	YO.No.												Additional MM (b)		
			1		2		3		5		6		7			8	
		(a)	From ...to	performed day	Accepted MM	From ...to	performed day	Accepted MM	From ...to	performed day	Accepted MM	From ...to	performed day	Accepted MM	From ...to	performed day	Accepted MM
1	11	Project Manager/Team Leader	1/8/2011-9/8/2011	9	0.3	7/6/2013-9/6/2013	3	0.1	7/2/2013-9/2/2013	3	0.1	7/5/2013-9/5/2013	3	0.1	7/1/2013-9/1/2013	3	0.1
		Ichizuru Ishimoto	22/8/2011-31/8/2011	9	0.3				7/3/2013-9/3/2013	3	0.1				7/4/2013-9/4/2013	3	0.1
			25/1/2011-27/9/2011	3	0.1												
			Total	21	0.7	Total	3	0.1	Total	6	0.2	Total	3	0.1	Total	6	0.2
2	12	Senior Highway Engineer	22/8/2011-31/8/2011	9	0.3	12/10/2012-17/10/2012	6	0.2	12/11/2011-2-	3	0.1	12/5/2013-14/5/2013	3	0.1	15/1/2013-17/1/2013	3	0.1
		Takayasu Nagai	1/9/2011-27/9/2011	27	0.9	12/6/2013-14/6/2013	3	0.1	12/1/2013-14/1/2013	3	0.1	12/6/2013-14/6/2013	3	0.1	15/3/2013-17/3/2013	3	0.1
			Total	36	1.2	Total	9	0.3	Total	6	0.2	Total	6	0.2	Total	6	0.2
3	15	Highway Engineer 1	1/9/2011-5/9/2011	6	0.2												
		Koji Nakai	16/9/2011-15/10/2011	30	1.0												
			Total	36	1.2												
4	18	Highway Engineer 2	1/4/2012-14/4/2012	13.5	0.45	10/3/2013-25/3/2013	15	0.5	10/4/2013-25/4/2013	15	0.5	10/5/2013-25/5/2013	15	0.5	7/2/2013-15/2/2013	9	0.3
5	113	Tunnel Engineer	10/11/2011-1-	15	0.5												
		Wako Noto	25/11/2011														
6	120	Survey Engineer				2/4/2012-3/3/2012	1.08	0.036									
		Masashi Suzuki															
7	121	Soil/Geotechnical Engineer 2				1/3/2013-31/3/2013	30	1.0	1/4/2013-15/4/2013	15	0.5				26/2/2013-28/2/2013	3	0.1
8	134	Construction Planner/Cost Estimator				9/4/2013-15/4/2013	6	0.2				13/5/2013-15/5/2013	3	0.1			0.30

No.	Name	2011												2012												2013				
		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug			
11	Project Manager/Team Lead Ichizuru Ishimoto	0.17	0.6	0.23	0.73	0.7	0.6	0.5	0.93	1	1	1	0.97	0.8	0.87	1	1	0.73	0.83	0.87	1	0.87	1	0.6	0.5					
	Additional Work	0	0.6	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0	0					
12	Senior Highway Engineer Takayasu Nagai	0.33	0.37	0.93	1	0.63	1	0.67	1	1	1	0.87	0.77	1	1	1	0.81	0.97	0.83	0.64	1	1	1	1	0.83					
	Additional Work	0	0.3	0.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0.1	0	0.2	0	0.2	0.2	0.1	0.1	0					
15	Highway Engineer I Koji Nakai	0.37	0.8	1	1	1	1	0.63	1	1	1	1	1	1	1	1	1	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0					
	Additional Work	0	0	0.8	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
18	Highway Engineer 2 Naresh Staitip	0	0	0	0	0	0	0	0.6	0.77	1	0.77	0.53	1	1	1	1	0.73	0.97	1	1	1	1	1	0					
	Additional Work	0	0	0	0	0	0	0	0	0	0	0	0	0	0.45	0	0	0	0	0.3	0.5	0.5	0.5	0	0					
19	Tunnel Engineer Wako Noto	0	0	0	0	0.57	0.3	0	0	0	0	0.67	0.9	0.77	1	0.23	0.7	0.77	0.77	0.23	0.77	0.23	0.77	0.23	0					
	Additional Work	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
20	Survey Engineer Masashi Suzuki	0.47	0.8	1	1	1	1	0.67	1	1	1	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0					
	Additional Work	0	0	0	0	0	0	0	0	0	0	0.036	0	0	0	0	0	0	0	0	0	0	0	0	0					
21	Soil/Geotechnical Engineer 2 Ichiro Noguchi	0	0	0	0	0	0	0	0	0	0	0.57	1	1	1	1	1	0.83	0.87	0.59	1	1	1	1	1					
	Additional Work	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0					
B4	Construction Planner/Cost E Masanori Nakagi	0	0	0	0	0.5	1	0.67	1	1	1	1	1	1	1	1	1	0.97	0.8	1	1	1	1	1	1					
	Additional Work	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.1	0					
	Total																													

(2) Domestic Staffs

No. Code	Position	No.	VO No.												Additional MM						
			1		2		3		5		6		7			8					
		(a)	From ...to	performed day	Accepted MM	From ...to	performed day	Accepted MM	From ...to	performed day	Accepted MM	From ...to	performed day	Accepted MM	From ...to	performed day	Accepted MM	(b)			
1	L1 Co-Project Manager	14	1/1/2012-8/1/2012	9	0.3				13/3/2013-15/3/2013	3	0.1	13/5/2013-15/5/2013	3	0.1	16/5/2013-18/5/2013	3	0.1	13/2/2013-15/2/2013	3	0.1	1.00
	Nguyễn Lâm Hồng		1/4/2012-8/4/2012	9	0.3																
	Total			18	0.6				Total	3	0.1	Total	3	0.1	Total	3	0.1	Total	3	0.1	
2	L2 Highway Engineer 1 (Geometric)	13	1/4/2012-30/4/2012	30	1.0													1/2/2013-15/2/2013	15	0.5	1.50
	Phạm Việt Hùng		1/4/2012-30/4/2012	30	1.0																
3	L3 Highway Engineer 2 (Road Structure)	13	1/4/2012-30/4/2012	30	1.0							16/5/2013-31/5/2013	15	0.5				1/2/2013-15/2/2013	15	0.5	2.00
	Hà Phước Thuận																				
4	L5 Bridge/Structure Engineer 1 (Superstructure)	13				1/2/2013-15/2/2013	15	0.5													0.50
5	L7 Highway Engineer 3 (Geometric)	12	1/4/2012-30/4/2012	30	1.0				3/3/2013-22/3/2013	21	0.7										2.20
	Hoàng Đức Châu		1/4/2012-30/4/2012	30	1.0																
6	L8 Highway Engineer 4 (Road Structure)	12	1/4/2012-30/4/2012	30	1.0	1/2/2013-15/2/2013	15	0.5				15/5/2013-15/5/2013	15	0.5	19/5/2013-25/5/2013	9	0.3	10/2/2013-24/2/2013	15	0.5	2.30
	Nguyễn Nho Sĩ		1/4/2012-30/4/2012	30	1.0																
7	L11 Highway Engineer 5 (Geometric)	12	1/4/2012-30/4/2012	30	1.0																1.40
	Nguyễn Vũ Mạnh																				
8	L19 Soft ground Treatment Specialist	3				1/2/2013-31/5/2013	120	4.0													4.00
	Bùi Xuân Hạnh																				
9	L25 Senior Surveyor 1	6	3/3/2012-7/3/2012	5.4	0.18				1/10/2012-30/11/2012	60	2.0	15/4/2013-30/4/2013	15	0.5				1/1/2013-15/1/2013	15	0.5	3.18
	Le Văn Thủ																				
10	L29 Soil/Geotechnical Engineer 3	4				1/1/2013-28/2/2013	60	2.0	1/3/2013-31/3/2013	30	1.0							1/4/2013-12/4/2013	12	0.4	3.40
	Le Xuân Vũ																				
11	L30 Soil/Geotechnical Engineer 4	4				1/1/2013-15/2/2013	45	1.5													1.50
	Trần Duy Khiêm																				
12	L32 Hydraulic Engineer 1	3										15/4/2013-27/4/2013	12	0.4							0.40
	Nguyễn Minh Lương																				
13	L32 Senior Environmental Specialist	8				3/6/2012-24/6/2012	21.6	0.72													0.72
	Ngô Thế Hùng																				
	Total	117		168.00	5.60		277.00	8.50		114.00	3.80		72.00	2.40		12.00	0.40		75.00	2.50	24.10

to	Position	Name	2011												2012												2013				
			Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug			
L1	Co-Project Manager	Doan Van Thang/Ng	0.13																												
	Additional Work																														
2	Highway Engineer 1 (Geometric)	P ham Viet Hung																													
	Additional Work																														
3	Highway Engineer 2 (Road Struct	Ha P huoc Thuan																													
	Additional Work																														
5	Bridge/Structural Engineer 1 (Sup	Nguyen Van Le																													
	Additional Work																														
7	Highway Engineer 3 (Geometric)	Hoang Duc Chau																													
	Additional Work																														
8	Highway Engineer 4 (Road Struct	Nguyen Nho Si																													
	Additional Work																														
L11	Highway Engineer 5 (Geometric)	Nguyen Vu Manh																													
	Additional Work																														
L19	Soft Ground Treatment Specialis	Bui Xuan Hanh																													
	Additional Work																														
25	Senior Surveyor 1	Le Van Thu																													
	Additional Work																														
29	Soil/Geotechnical Engineer 3	Le Xuan Vu																													
	Additional Work																														
30	Soil/Geotechnical Engineer 4	Luu Anh Tuan/Tran																													
	Additional Work																														
32	Hydraulic Engineer 1	Nguyen Minh Luong																													
	Additional Work																														
L52	Senior Environmental Specialist	Ngo The Hung																													
	Additional Work																														
	Total																														

(3) MM of Allowance

No.	Description	Unit	Q'ty
			MM
1.	<u>Perdiem Allowance (fixed unit rate)</u>		
2-1	International Consultant	months	8.49
2-2	National Consultant (for the experts mobilized from outside Danang)	months	19.60
2.	<u>Accommodation Allowance (fixed unit rate)</u>		
3-1	International Consultant	months	8.49
3-3	National Consultant (for the experts mobilized from outside Danang)	months	19.60
-			

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Appendix -3: Additional Topographic Survey Works

Work quantities of additional topographic survey:

TT /No.	Nội dung công việc / Additional survey works	Đơn vị/ unit	Khối lượng/ Quantity
1	Khảo sát bình đồ bổ sung Khu vực đông dân cư (1/1000) / Additional Topographic and Environmental Survey at Populous Residential Areas	ha	87.228
2	Khảo sát địa hình bổ sung tại các nghĩa trang chính (1/1000) / Re-alignment at Major Cemeteries	ha	49.68
3	Khảo sát địa hình bổ sung tại nút giao Dung Quất 2(1/500) / Preliminary Design of Dung Quat 2 IC	ha	18.11
4	Khảo sát địa hình bổ sung cho di dời nút giao Bắc Quảng Ngãi(1/500) / Relocation of Quang Ngai North IC	ha	87.27

In which:

1. Additional Topographic and Environmental Survey at Populous Residential Areas (VO No.2

TT/ No.	Lý trình/ Station	Chiều dài khảo sát/ Survey length (m)	Diện tích khảo sát/ Survey Area (ha)
1	Km23+950 - Km24+280	330	11.880
2	Km24+740 - Km24+840	100	3.600
3	Km42+844 - Km43+040	196	7.056
4	Km47+100 - Km47+377	277	9.972
5	Km49+020 - Km49+280	260	9.360
6	Km51+020 - Km51+120	100	3.600
7	Km89+060 - Km89+240	180	6.480
8	Km100+120 - Km100+760	640	23.040
9	Km105+560 - Km105+900	340	12.240
Tổng (A) / Total (A)		2,423	87.228

Quantity of additional topographic survey for the populous resident areas were accepted by the Project operating unit of PMU85 in the Minutes of acceptance of Topographic Survey-Item : Additional topographic survey for the populous resident areas dated 16/5/2013

2. Re-alignment at Major Cemeteries (VO No.5)

No./STT	Code/Mã	Additional Works/Công việc bổ sung	Unit/ĐVT	Qty/KL
	STP-C: Additional planimetric survey of throughways for re-alignment sections for avoiding cemetery areas./ STP-C: Khảo sát địa hình bổ sung cho tuyến chính đối với các đoạn chỉnh tuyến để tránh các khu nghĩa trang			
1	STP-C-1	Section 9: KM0+500-KM2+680/ Đoạn 9: KM0+500-KM2+680	ha	10.48
2	STP-C-2	Section 10: KM26+350-KM31+560/ Đoạn 10: KM26+350-KM31+560	ha	39.20
		Total/Tổng cộng		49.68

Quantity of additional topographic survey for section Km0+500-Km2+680 were accepted by the Project operating unit of PMU85 in the Minutes of acceptance of Topographic Survey-Package 1 dated 24/5/2013.

Quantity of additional topographic survey for section Km26+350-Km31+560 were accepted by the Project operating unit of PMU85 in the Minutes of acceptance of Topographic Survey-Package 4 dated 31/5/2013

3. Preliminary design of Dung Quat 2 IC (VO No. 6)

TT/ No.	Item/ Hạng mục	Unit/ĐVT	Quantity/ Khối lượng
1	Planimetric/ Bình đồ (1/500)	ha	18.11
	Tổng / Total		18.11

4. Relocation of Quang Ngai North IC (VO No.8)

No./TT	Item/ Hạng mục	Unit/ĐVT	Quantity/KL
A	Quang Ngai North IC (New Location)/ Nút giao Bắc Quảng Ngãi (vị trí mới) (STP-E)		
1	Planimetric/ Bình đồ (1/500)	ha	87.27
	Total/Tổng cộng		87.27

Quantity of additional topographic survey for Dung Quat 2 Interchange and Quang Ngai North Interchange (new location) were accepted by the Project operating unit of PMU85 in the Minutes of acceptance of Topographic Survey-Package A4 – Item :Additional topographic survey for the interchanges dated 10/9/2013

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Appendix -4: Additional Topographic Survey Works

1. Additional length of Softground sections (VO No.3)

Hạng mục / Item	Đơn vị/ Unit	Khối lượng Bổ sung / Additional Quantity				
		PKG 1	PKG2	PKGA 2-2	PKGA 3	Total
Số lỗ khoan cho đất yếu/ <i>Nos. of boring for softground</i>	nos.	45	46	12	28	131
Chiều dài khoan bổ sung cho đất yếu/ <i>Length of additional boring for softground</i>	m	945.9	827.8	147.5	382.4	2,303.6
Chiều dài khoan bổ sung cho cầu (trên bờ)/ <i>Length of additional boring for Bridge (On shore)</i>	m					0
Chiều dài khoan bổ sung cho cầu (dưới nước)/ <i>Length of additional boring for Bridge (Off shore)</i>	m					0.0
Thí nghiệm xuyên tiêu chuẩn (SPT)/ <i>Standard Penetration Test (SPT)</i>	nos.	486	399	78	174	1,137
Thí nghiệm cắt cánh/ <i>Vane Shear Test</i>	nos.	130	102	7	59	298
Thí nghiệm mẫu nguyên trạng/ <i>Undisturbed Sample Test</i>	nos.	162	172	31	62	427
Thí nghiệm mẫu không nguyên trạng/ <i>Disturbed Sample Test</i>	nos.	84	34	20	23	161
Thí nghiệm nén không nở hông (đất)/ <i>Unconfined Compressiton Test (soil)</i>	nos.	40	27	3	14	84
Thí nghiệm cô kết/ <i>Consolidation Test</i>	nos.	45	51	4	23	123
Thí nghiệm UU / <i>UU Test</i>	nos.	8	11	0	3	22
Thí nghiệm CU/ <i>CU Test</i>	nos.	9	19	0	2	30

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1.1. Additional survey works for Softground, PKG 1

TT	Additional request No. Số yêu cầu bổ sung	Bored hole Tên lỗ khoan	Length Chiều dài	Sampling Lấy mẫu	Field vane test Thí nghiệm cắt cánh hiện trường	Undisturbed sample test TN mẫu nguyên dạng	disturbed sample test TN mẫu nguyên không dạng	Unconfined compression Thí nghiệm nén cực hạn	Consolidation test Thí nghiệm cố kết	Thí nghiệm nén ba trục (UU)	Thí nghiệm nén ba trục (CU)	Thí nghiệm xuyên tiêu chuẩn SPT	Ghi chú
1	1	SG-4620	28.2	15	3	4	3	2	1		1	15	
2		SG-4720L	25	12	5	4	2	1	1			12	
3		SG-4720R	27	13	9	5	1	1	1			13	
4		SG-4790											Không nghiệm thu
5	2	CB-4940L	31	15		5	1	1	1			15	
6		CB-4940R	32	16	6	5	3	1	1			16	
7	3	SG-6081L	13	7	4	3		1	1			7	
8		SG-6081	13	7	3	4	1		1	1		7	
9		SG-6081R	12.5	6	2	2	1					6	
10		SG-6156	12	7	3	3		1	1		1	7	
11		SG-6231L	16.2	8	3	3	2	1	1	1		10	
12		SG-6231	18.2	10	3	3	2	1	1	1		10	
13		SG-6231R	20	10		2	3	1	1			10	
14		SG-6378L	14	7	3	3	2	1	1			7	
15		SG-6378	17	9	4	2	2	1		1		9	
16		SG-6378R	13.2	7	4	3			1			7	
17	SG-6453	21	11		3	3	1	1		1	11		
18	4	SG-3164	10	5	2	2	1	1	1			5	
19		SG-3358L											Đã hủy
20		SG-3358	12	6	2	1	2	1	1	1		6	
21		SG-3358R											Đã hủy
22	SG-3436	15	8	4	3	1		1		1	8		
23	SG-3515L	29	15	7	7	2	1	2			15	CB	
24	SG-3515R	30	15	6	7	1		2			15	CB	
25	5	SG-4520L	27	14	3	3	3	1	1			14	
26		SG-4520R	28	14	3	4	4	2	1			14	
27		SG-4437	25.2	13	5	4	2	1	1	1		13	
28	7	SG-3737L	29.5	15	4	7	1	1	2			15	
29		SG-3737	29.5	15	5	6	2	1	2		1	15	
30		SG-3737R	26	13	4	6	2	1	2			13	
31		SG-3877L	27.5	14	2	5	2		1			14	
32		SG-3877	26	13	2	4	2	1	1		1	13	
33		SG-3877R	25.5	13	2	5	2	1	1			13	
34		SG-3955	25	13	1	3	3	1	1	1		13	
35		SG-4030L	27	13	3	4	3	1	1			13	
36		SG-4030R	24.5	12	2	6	1	1	1			12	
37		SG-4110	25.5	13	3	4	2	1	2	1		13	
38		SG-4191L	23	12	2	4	2	1	1			12	
39		SG-4191	26	13	3	5	1	1	1		1	13	
40		SG-4191R	25	13	2	3	3	1	1			13	
41		SG-4355L	26	13	4	4	2	1	1			13	
42		SG-4355	25.2	13	4	5	2	2	1		1	13	
43		SG-4355R	25.2	13	3	3	3	1	1			13	
44	8	SG-6645	10	6			3	1				6	
45		SG-6720L	9	5		1	2	1				5	
46		SG-6720R	7	4			2					4	
47		SG-6795	14	8		2	2	1	1		1	8	
Tổng cộng			945.9	484	130	162	84	40	45	8	9	486	

Quantity of additional geotechnical survey were accepted by the Project operating unit of PMU85 in the Minutes of acceptance 10/DQEP-DD – Geotechnical Survey – Package 1 dated 15/7/2013

NA - P

1.1. Additional survey works for Softground, PKG 2

TT	Additional request No. Số yêu cầu bổ sung	Bored hole Tên lỗ khoan	Length Chiều dài	Lấy mẫu	Field vane test Thí nghiệm cắt cánh hiện trường	Undisturbed sample test TN mẫu nguyên dạng	disturbed sample test TN mẫu nguyên không dạng	Unconfined compression Thí nghiệm nén cục hạn	Consolidation test Thí nghiệm cố kết	Thí nghiệm nén ba trục (UU)	Thí nghiệm nén ba trục (CU)	Thí nghiệm xuyên tiêu chuẩn SPT	Ghi chú
1	1	SG-12180	36	18	8	5	3	1	1	1		18	
2		SG-12255L	39	19	1	5	3		2			19	
3		SG-12255R	27	13	1	2	4	1	1			13	
4		SG-12330	40	21	9	6	2	1	2	1		21	
5	2	SG-8015	9.2	5		2	1					5	
6		SG-8100L	16.3	9	2	5		1	2		1	9	CB
7		SG-8100R	22.5	10	1	4	1	1	2			10	CB
8	3 Hủy khoan	CB-10773L	15	8	2	2	2					8	
9		CB-10773R	15	8	2	2	2					8	
10		SG-13760L	15	8	2	2	2					8	
11		SG-13760R	15	8	2	2	2					8	
12		SG-15010L	15	8	2	2	2					8	
13		SG-15010R	15	8	2	2	2					8	
14		4	SG-8285L	19.3	10	7	4	1	1	2			10
15	SG-8285		25.3	13	5	6	2	1	2		1	13	
16	SG-8285R		22.7	11	2	6		1	2	1		9	
17	SG-12400L		27.2	13		4	2		1			13	
18	SG-12400		24.2	12		3	2		1		1	12	
19	SG-12400R		24.4	11		4	1	1	1			11	
20	5	SG-11521.5L	31	16		4	3	1	1			16	CB
21		SG-11521.5R	31	16		5	2	1	1			16	CB
22		SG-11440	30	15	8	8		1	2	1		15	
23		SG-11615	24	12	2	4	1		1			12	
24	6 Hủy khoan	SG-14360L	15	8	2	2	2					8	
25		SG-14360R	15	8	2	2	2					8	
26		SG-14435	15	8	2	2	2	1	1	1	1	8	
27	7	SG-8360	16.3	9	5	5		1	2	1		9	
28	8 Hủy khoan	SG-12750L	15	8	2	2	2					8	
29		SG-12750R	15	8	2	2	2					8	
30		SG-8435L	18	9	7	4			1			9	
31	9	SG-8435	19.3	10		4	1	1	1		1	10	
32		SG-8435R	16.2	8	4	5			2			8	
33		SG-8528	17.2	9	5	4	1	1	1	1		9	
34		10	SG-8600L	16	8		3	1		1			8
35	SG-8600R		14	7	4	4			1			7	CB
36	SG-8670		17.2	9		4	2	1	1	1		9	
37	SG-8741L		18.2	9	1	4	1	1				9	CB
38	SG-8741R		16.5	8		3	1	1	1			8	CB
39	SG-8815		17	9		4	1		1	1		9	
40	SG-8885L		16	8		4	1		1			8	
41	SG-8885		17.2	9	4	3	1	1	1		1	9	
42	SG-8885R		15.5	7		3	1					7	
43	SG-8955		15.2	8		3	2	1	1	1		8	
44	SG-9030L		19	10	6	5		1	1			10	CB
45	SG-9030R		16.2	8		4	1					8	CB
46	SG-9120		18	9	4	3	2		1	1		9	
47	11	SG-10390	25	13	5	6	1	1	1	1		13	
48		SG-10470L	12.5	6	2	3		1	1			6	
49		SG-10470	17	9		3	1		1		1	9	
50		SG-10470R	24	12		6		1	1		12		
51		SG-11360L	30	15	11	7		1	1			15	
52		SG-11360	31	16	10	6	1	1	1		1	16	
53		SG-11360R	28	14	10	6	1	1	1			14	
54	12	SG-9200L	18	9		3	2	1	1			9	
55		SG-9200	18	10		3	2		1		1	10	
56		SG-9200R	18.2	9		2	2		1			9	
57		SG-9280	19	10		3	2		1	1		10	
Tổng KL khoan bổ sung (A)			992.8	501	124	194	56	28	52	12	20	487	
Tổng KL không khoan theo KH trình			165	88	22	22	22	1	1	1	1	88	
46	(A)-(B)		827.8	413	102	172	34	27	51	11	19	399	

Quantity of additional geotechnical survey were accepted by the Project operating unit of PMU85 in the Minutes of acceptance 2/DQEP-DD – Geotechnical Survey – Package 2 dated 27/2/2013

1.1. Additional survey works for Softground, PKG A2

TT	Additional request No. Số yêu cầu bổ sung	Bored hole Tên lỗ khoan	Length Chiều dài	Undisturbed sample test TN mẫu nguyên dạng	disturbed sample test TN mẫu nguyên không dạng	Rock test Thí nghiệm đá	Field vane test Thí nghiệm cắt cánh hiện trường	Unconfined compression Thí nghiệm nén cực hạn	Consolidation test Thí nghiệm cố kết	Thí nghiệm xuyên tiêu chuẩn SPT
1	1	SG-89750	15	4			1	1	1	8
2		SG-89900	11	3					1	6
3		SG-90925	11	2	2		1			6
4		SG-91250	15	4						9
5		SG-91250L	12	3	1					7
6		SG-91250R	13	3	1		1			8
7		SG-92425	13	2	3		1		1	6
8		SG-92425L	13	2	2		1	1		6
9		SG-92425R	11.5	2	3		1	1		6
10		SG-92525	14	2	4		1		1	6
11		SG-92725	12	2	3					7
12		SG-98550	7	2	1					3
12	Tổng		147.5	31	20	0	7	3	4	78

Quantity of additional geotechnical survey were accepted by the Project operating unit of PMU85 in the Minutes of acceptance 6/DQEP-DD – Geotechnical Survey – Package A2-2 dated 5/2013

DT - 1

1.2. Additional survey works for Softground, PKG A3

TT	Additional request No. Số yêu cầu bổ sung	Bored hole Tên lỗ khoan	Length Chiều dài	Thí nghiệm xuyên tiêu chuẩn SPT	Field vane test Thí nghiệm cắt cánh hiện trường	Undisturbed sample test TN mẫu nguyên dạng	disturbed sample test TN mẫu nguyên không dạng	Rock test Thí nghiệm đá	Unconfined compression Thí nghiệm nén cực hạn	Thí nghiệm nén ba trục (UU)	Thí nghiệm nén ba trục (CU)	Consolidation test Thí nghiệm cố kết
1	1	SG-107150	16.5	8	3	3	1		1			1
2		SG-107225L	14	6	2	2	1		1			1
3		SG-107225	13	6	2	2	1		1			
4		SG-107225R	17	8	3	3	1					1
5		SG-107400L	14	6	2	2						1
6		SG-107400	13.5	6	4	2	1		1			1
7		SG-107400R	12.7	6	4	2	1		1			
8		SG-107475	15	6	4	2			1			1
9		SG-107570L	15	7	5	2	1		1			1
10		SG-107570R	12	5	2	2						
11		SG-107625	15.5	7	1	2	1					1
12	2	SG-102125	10	4	3	2			1	1		1
13		SG-102180	12.5	6	3	3			1		1	1
14		SG-102250	12	6	2	3			1			1
15		SG-104750	9	4	3	2			1	1		1
16		SG-104820L	6.3	3	2	2			1			1
17		SG-104820	8.2	3		2						1
18		SG-104820R	7.5	3	3	2						1
19		SG-106150	12	5	2	3						1
20		SG-106220L	12.7	6		1	2					
21		SG-106220	13	6	1	2	1			1		1
22		SG-106220R	15.5	8	2	3	1					
23		SG-106290	17.5	8	2	3	1		1		1	2
24		SG-106368	15	7	2	2	2					1
25		SG-106450	15.5	8	1	2	2					1
26		SG-106530L	20	8		1	3					
27		SG-106530	20	9	1	2	2		1			1
28		SG-106530R	17.5	9		3	1					1
28	Tổng		382.4	174	59	62	23	0	14	3	2	23

Quantity of additional geotechnical survey were accepted by the Project operating unit of PMU85 in the Minutes of acceptance 24/DQEP-DD – Geotechnical Survey – Package A3 dated 11/7/2013

2. Re-alignment at Major Cemeteries (VO No.5)

Hạng mục /Items	Đơn vị / Unit	Khối lượng bổ sung /Additional quantity		
		KM 1-3	KM26-30	Tổng
Số lỗ khoan cho nền đắp thông thường/ Nos. of boring for normal embankment	nos.	1	9	10
Chiều dài khoan cho nền đắp thông thường/ Length of boring for normal embankment	m	7.0	65.3	72.3
Số lỗ khoan cho đất yếu / Nos. of boring for soft soil	nos.	16		16
Chiều dài khoan cho đất yếu/ Length of boring for soft soil	m	343.0		343.0
Số lỗ khoan cho đào sâu / Nos. of boring for deep excavation	nos.		11	11
Chiều dài khoan cho đào sâu /Length of boring for deep excavation	m		260	260
Số lỗ khoan cho cầu /Nos. of boring for bridge	nos.	2	3	5
Chiều dài khoan cho cầu (trên bờ) /Length of boring for bridge (on shore)	m	52.0	77.0	129.0
Chiều dài khoan cho cầu (dưới nước) /Length of boring for bridge (off shore)	m			
Số lỗ khoan cho cống hộp /Nos. of boring for boxculvert	nos.		15	15
Chiều dài khoan cho cống hộp /Length of boring for boxculvert	m		130.3	130.3
Thí nghiệm xuyên tiêu chuẩn (SPT) /Standard Penetration Test (SPT)	nos.	196	151	347
Thí nghiệm cắt cánh /Vane Shaer Test	nos.	42	0	42
Thí nghiệm mẫu nguyên trạng /Undisturbed Sample Test	nos.	36	22	58
Thí nghiệm mẫu không nguyên trạng /Disturbed Sample Test	nos.	62	46	108
Thí nghiệm nén không nở hông (đá) /Unconfied Compressiton Test (rock)	nos.		21	21
Thí nghiệm nén không nở hông (đất)/ Unconfied Compressiton Test (soil)	nos.	10	0	10
Thí nghiệm cố kết /Consolidation Test	nos.	11	0	11
Thí nghiệm UU / UU Test	nos.	5	0	5
Thí nghiệm CU /CU Test	nos.	4	0	4

Quantity of geotechnical survey for section Km1+00-Km3+00 were accepted by the Project operating unit of PMU85 in the Minutes of acceptance 20/DQEP-DD – Geotechnical Survey – Package 1 – realigned section dated 30/7/2013

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Quantity of geotechnical survey for section Km26+00-Km30+00 đã BDH were accepted by the Project operating unit of PMU85 in the Minutes of acceptance 22/DQEP-DD Geotechnical Survey – Package 4 – section 2 (Km26+800-Km32+600) dated 30/7/2013.

3. Relocation of Quang Ngai North IC (VO No. 8)

Hạng mục /Item	Unit/ĐVT	Khối lượng/ Additional Quantity
Số lỗ khoan / <i>Nos. of additional boring for Quang ngai North IC</i>	nos.	6
Chiều dài khoan cho cầu vượt / <i>Additional length of boring for Over Pass</i>	m	29.4
Chiều dài khoan nền đường và công / <i>Additional length of boring for embankment & box culvert</i>	m	36.0
Thí nghiệm SPT / <i>Standard Penetration Test (SPT)</i>	nos.	21
Thí nghiệm nguyên dạng / <i>Undisturbed Sample Test</i>	nos.	1
Thí nghiệm phá hủy / <i>Disturbed Sample Test</i>	nos.	10
Thí nghiệm nén không nở hông / <i>Unconfined compression test</i>	nos.	4

Quantity of additional geotechnical survey were accepted by the Project operating unit of PMU85 in the Minutes of acceptance 13/DQEP-DD – Geotechnical Survey for the interchanges of Mỹ Sơn, Hà Lam, Tam Kỳ, Chu Lai, Dung Quất, Quảng Ngãi North dated 4/6/2013

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