



KINGDOM OF THAILAND
MINISTRY OF TRANSPORT
DEPARTMENT OF HIGHWAYS

LOAN NO. 3582-THA

**CONTRACT
VARIATION NO.4**

FOR

**CONSULTING SERVICES FOR
CONSTRUCTION SUPERVISION CONSULTANTS**

FOR

**THE GREATER MEKONG SUBREGION (GMS)
HIGHWAY EXPANSION PHASE 2 PROJECT
CONTRACT NO. CS-1**

BETWEEN

**DEPARTMENT OF HIGHWAYS
MINISTRY OF TRANSPORT**

AND

**KOREA ENGINEERING CONSULTANT CORP.
ASIAN ENGINEERING CONSULTANTS CORP., LTD.
CONSORTIUM**

DEPARTMENT OF HIGHWAYS
MINISTRY OF TRANSPORT
KINGDOM OF THAILAND

LOAN NO. 3582-THA

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FOR

CONSULTING SERVICES FOR
CONSTRUCTION SUPERVISION CONSULTANTS

FOR

THE GREATER MEKONG SUBREGION (GMS)

HIGHWAY EXPANSION PHASE 2 PROJECT

Contract No. CS-1

Date : 31st August 2021

This CONTRACT VARIATION is made on the 31st day of August 2021 to the Contract No. CS-1 (hereinafter called the "Contract") signed on the 15th August 2018, the Contract Variation No.1 (hereinafter called the "VO1") signed on the 22nd November 2018, the Contract Variation No.2 (hereinafter called the "VO2") signed on the 1st August 2019, and the Contract Variation No.3 (hereinafter called the "VO3") signed on the 25th December 2019, effective from 1st January 2020, for the Consulting Services for Construction Supervision Consultants for the Greater Mekong Subregion (GMS) Highway Expansion Phase 2 Project between, on the one hand, **Department of Highways, Ministry of Transport, the Kingdom of Thailand** represented by Mr. Danai Ruengporn, Director of Bureau of International Highways Cooperation (hereinafter called the "Client") and, on the other hand, **Korea Engineering Consultants Corp. - Asian Engineering Consultants Corp., Ltd. Consortium** incorporated under the law of Thailand, with head office located at 9th Floor Sathorn Thani Building, 90/18-90/20, North Sathorn Road, Bangkok, 10500, Thailand, represented by Mr. Seon-Joong Kim, Managing Director of Korea Engineering Consultants Corp., and Mr. Paiboon Chokpraisin, Chief Executive Officer of Asian Engineering Consultants., Ltd., who are the Authorized Representatives (hereinafter called the "Consultant").

WHEREAS

- (a) the Consultant has proposed the remuneration of Consultant's construction supervision Key and Non-Key Experts for the additional person-months including reimbursable expenses arising from the actual works implementation caused by the time extension of Construction Contracts Packages I, J, M and N in accordance with the General Conditions of Contract, Clause 42 Remuneration and Other Expenses, Provisional Sums and Contingency;
- (b) the Consultant has proposed the extension of Consultant's Contract Period in consequence of Package M construction for three (3) months from 01 September 2021 to 30 November 2021 with the addition of input person-months for Key Experts, Area Engineer 3 and Construction Supervision Engineer 5, and Non-Key Experts of Construction Contract Package M for 0.5 person-month, and for Key Experts, Project Manager and Office Engineers,

and Non-Key Expert, Project (bilingual) Secretary (Project Office at DOH Headquarters) for 2.5 person-month;


(c) the Consultant's proposals (a) – (b) have been agreed by the Client in writing;

NOW THEREFORE the parties hereto hereby agree as follows:

1. The Client and the Consultant agree to revise Appendix B – Key Experts of the Contract, VO1, VO2 and VO3 comprising Key Experts Input and Personnel Schedule, as shown in **Attachment 1** attached hereto.
2. The Client and the Consultant agree to revise Appendix C – Remuneration Cost Estimates of the Contract, VO1, VO2, and VO3, as shown in **Attachment 2** attached hereto.
3. The Client and the Consultant agree to revise Appendix D – Other Expenses and Provisional Sums of the Contract, VO1, VO2, and VO3, as shown in **Attachment 3** attached hereto.
4. In accordance with Special Conditions of Contract Clause 41.3, after this Contract Variation, the ceiling amount of the Contract is *USD 1,333,630.00 and BAHT 230,901,119.41* inclusive of 7% VAT. In total, the ceiling amount of Contract in Thai baht is maintained *BAHT 272,920,600.00*.
5. This Contract Variation and all Attachments attached hereto constitute as Supplementary Contract and shall be deemed to form an integral part of the Contract.
6. Except as provided herein, other terms and conditions of the Contract No. CS-1 dated 15th August 2018, Contract Variation No.1 dated 22nd November 2018, Contract Variation No.2 dated 1st August 2019, and Contract Variation No.3 dated 25th December 2019 shall remain valid.

IN WITNESS WHEREOF, the Parties hereto have caused this Contract to be signed in their respective names as of the day and year first above written.


For and on behalf of
**Department of Highways, Ministry of Transport,
The Kingdom of Thailand**

By  _____

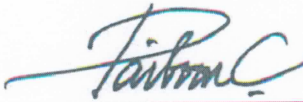
[Mr. Danai Ruengsom]
Director

Bureau of International Highways Cooperation

For and on behalf of
**Korea Engineering Consultants Corp.
Asian Engineering Consultants Corp., Ltd.
Consortium**

By  _____

[Mr. Seon-Joong Kim]
Managing Director, KECC


By  _____

[Mr. Paiboon Chokpraisin]
Chief Executive Officer, AEC

Witness  _____

[Mr. Piya Chootinan]
Deputy Director

Bureau of International Highways Cooperation

Witness  _____

[Mr. Withoon Chinchalongporn]
CSC Area Engineer 3

Appendix B: Key Experts

- Key Experts Input
- Personnel Schedule



KEY EXPERTS' INPUTS

No	Name, Nationality and DOB	Expert's input (in person/month) per each Deliverable (listed in TECH-5)								Total time-input (in Months)			
		Position		D-1	D-2	D-3	D-4	D-5	D-6	Home	Field	Total	
KEY EXPERTS													
International													
IK-1	Kim, Seon Joong KOR / 19.01.1964	Project Manager/ Team Leader	[Home]								0.00	35.50	35.50
			[Field]	[1.00m]	[1.00m]	[30.50m]	[1.00m]	[1.00m]	[1.00m]				
IK-2	Baek, Hyon Su KOR / 25.08.1973	Road Safety Specialist / Road Safety Resource Person	[Home]								0.00	24.00	24.00
			[Field]	[1.00m]	[1.00m]	[18.00m]	[0.00m]	[0.00m]	[4.00m]				
IK-3	ELSIE B. MONSANTO PH / 15.05.1961	Environmental Specialist	[Home]								0.00	6.00	6.00
			[Field]	[0.00m]	[3.00m]	[3.00m]	[1.00m]	[0.00m]	[0.00m]				
IK-4	Michael S. ALCAZAREN PH / 207.10.1958	Resettlement Specialist	[Home]								0.00	6.00	6.00
			[Field]	[4.00m]	[0.00m]	[1.00m]	[0.00m]	[1.0m]	[0.00m]				
National													
NK-1	Sithichai Angkathavanich THAI / 14.12.1945	Area Engineer 1 [Package I and J]	[Home]								0.00	33.33	33.33
			[Field]	[0.50m]	[0.50m]	[31.33m]	[0.00m]	[0.00m]	[1.00m]				
NK-2	Sathitpong Mungphlenman THAI / 18.04.1953	Area Engineer 2 [Package K and L]	[Home]								0.00	32.00	32.00
			[Field]	[0.50m]	[0.50m]	[30.00m]	[0.000m]	[0.00m]	[1.00m]				
NK-3	Withoon Chinchalongpom THAI / 10.12.1955	Area Engineer 3 [Package M and N]	[Home]								0.00	36.50	36.50
			[Field]	[0.50m]	[0.50m]	[34.50m]	[0.00m]	[0.00m]	[1.00m]				
NK-4	Zadsharl Boonzadthanashok THAI / 10.12.1948	Construction Supervision Engineer 1 [Package I]	[Home]								0.00	33.33	33.33
			[Field]	[0.00m]	[0.00m]	[33.33m]	[0.00m]	[0.00m]	[0.00m]				
NK-5	Tawich Jittanoon THAI / 02.06.1955	Construction Supervision Engineer 2 [Package J]	[Home]								0.00	26.37	26.37
			[Field]	[0.00m]	[0.00m]	[26.37m]	[0.00m]	[0.00m]	[0.00m]				
NK-6	Maitri Tamagosit THAI / 19.12.1948	Construction Supervision Engineer 3 [Package K]	[Home]								0.00	30.00	30.00
			[Field]	[0.00m]	[0.00m]	[30.00m]	[0.00m]	[0.00m]	[0.00m]				
NK-7	Siripong Sararit THAI / 01.04.1955	Construction Supervision Engineer 4 [Package L]	[Home]								0.00	30.00	30.00
			[Field]	[0.00m]	[0.00m]	[30.00m]	[0.00m]	[0.00m]	[0.00m]				
NK-8	Wallop Sawaengpol THAI / 21.04.1974	Construction Supervision Engineer 5 [Package M]	[Home]								0.00	36.50	36.50
			[Field]	[0.00m]	[0.00m]	[36.50m]	[0.00m]	[0.00m]	[0.00m]				
NK-9	Charuik Sutapintu THAI / 5.06.1952	Construction Supervision Engineer 6 [Package N]	[Home]								0.00	30.42	30.42
			[Field]	[0.00m]	[0.00m]	[30.42m]	[0.00m]	[0.00m]	[0.00m]				
NK-10	Teeraphat Ngoates THAI / 02.08.1953	Soil Engineer 1 [Package I and J]	[Home]								0.00	20.0	20.0
			[Field]	[0.00m]	[0.00m]	[20.00m]	[0.00m]	[0.00m]	[0.00m]				

No	Name, Nationality and DOB	Expert's input (in person/month) per each Deliverable (listed in TECH-5)								Total time-input (in Months)		
		Position		D-1	D-2	D-3	D-4	D-5	D-6	Home	Field	Total
NK-11	Suratep Thanasupchusak THAI / 07.12.1974	Soil Engineer 2 [Package K and L]	[Home]							0.00	20.00	20.00
			[Field]	[0.00m]	[0.00m]	[20.00m]	[0.00m]	[0.00m]	[0.00m]			
NK-12	Pratum Pakvisate THAI / 21.04.1966	Soil Engineer 3 [Package M and N]	[Home]							0.00	20.00	20.00
			[Field]	[0.00m]	[0.00m]	[20.00m]	[0.00m]	[0.00m]	[0.00m]			
NK-13	Adisak Boonma THAI / 07.04.1954	Asphalt Engineer 1 [Package I and J]	[Home]							0.00	13.33	13.33
			[Field]	[0.00m]	[0.00m]	[13.33m]	[0.00m]	[0.00m]	[0.00m]			
NK-14	Ampom Ratee THAI / 17.11.1953	Asphalt Engineer 2 [Package K and L]	[Home]							0.00	10.00	10.00
			[Field]	[0.00m]	[0.00m]	[10.00m]	[0.00m]	[0.00m]	[0.00m]			
NK-15	Theerayut Piyakititsuk THAI / 11.08.1957	Asphalt Engineer 3 [Package M and N]	[Home]							0.00	13.00	13.00
			[Field]	[0.00m]	[0.00m]	[13.00m]	[0.00m]	[0.00m]	[0.00m]			
NK-16	Sarawoot Suebchaiwang THAI / 10.09.1971	Highway Engineer	[Home]							0.00	24.00	24.00
			[Field]	[0.00m]	[1.00m]	[22.00m]	[0.00m]	[1.00m]	[0.00m]			
NK-17	Wichuda Satiennam THAI / 01.02.1978	Road Safety Audit Specialist	[Home]							0.00	12.00	12.00
			[Field]	[0.00m]	[1.00m]	[9.00m]	[0.00m]	[0.00m]	[2.00m]			
NK-18	Vatanavongs atanavara THAI / 17.03.1970	Road Safety Training and Campaign Specialist	[Home]							0.00	12.00	12.00
			[Field]	[0.00m]	[0.00m]	[12.00m]	[0.00m]	[0.00m]	[0.00m]			
NK-19	Nakom Srithiwong THAI / 09.03.1971	Environmental Specialist	[Home]							0.00	24.00	24.00
			[Field]	[0.00m]	[12.00m]	[12.00m]	[0.00m]	[0.00m]	[0.00m]			
NK-20	Veerasak Aungsutharn THAI / 04.06.1956	Resettlement Specialist	[Home]							0.00	24.00	24.00
			[Field]	[12.00m]	[0.00m]	[12.00m]	[0.00m]	[0.00m]	[0.00m]			
NK-21	Suthep Silapanuntakul THAI / 01.08.1956	HIV/AIDS Awareness Specialist	[Home]							0.00	12.00	12.00
			[Field]	[0.00m]	[0.00m]	[12.00m]	[0.00m]	[0.00m]	[0.00m]			
NK-22	Panisara Suebchaiwang THAI / 27.02.1972	Gender/Social Development Specialist	[Home]							0.00	12.00	12.00
			[Field]	[1.00m]	[1.00m]	[12.00m]	[0.00m]	[0.00m]	[0.00m]			
NK-23	Vorasett Chovichien THAI / 04.10.1979	Civil Office Engineer 1	[Home]							0.00	38.50	38.50
			[Field]	[1.00m]	[1.00m]	[32.50m]	[2.00m]	[1.00m]	[1.00m]			
NK-24	Rachadtharakom Jureeganon THAI / 06.03.1980	Civil Office Engineer 2	[Home]							0.00	38.50	38.50
			[Field]	[1.0m]	[1.00m]	[32.50m]	[2.00m]	[1.00m]	[1.00m]			
NK-25	Wanchai Panompompanich THAI / 09.10.1949	Bridge Engineer	[Home]							0.00	6.00	6.00
			[Field]	[0.00m]	[0.00m]	[6.00m]	[0.00m]	[0.00m]	[0.00m]			
Subtotal									0.00	659.28	659.28	

Personnel Schedule

THA: Greater Mekong Subregion Highway Expansion Phase 2 Project Package No. CS1- Consulting Services for Construction Supervision Consultant					2018				2019								2020								2021					Remarks															
No.	Name	Position	Nationality /Firm	Person /Month	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	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov		
					1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th	10 th	11 th	12 th	13 th	14 th	15 th	16 th	17 th	18 th	19 th	20 th	21 st	22 nd	23 rd	24 th	25 th	26 th	27 th	28 th	29 th	30 th	31 st	32 nd	33 rd	34 th	35 th	36 th	37 th	38 th	39 th		
Key Experts (International)																																													
IK-1	Mr. Kim, Seon Joong	Project Manager Team Leader	Korea KECC	VO1	33																																								Intermittent
				VO4	35.5																																								
IK-2	Mr. Baek, hyon Su	Road Safety Expert/ Road Safety Resource Person	Korea KECC	Original	13																																								Intermittent
				VO1	24																																								
IK-3	Ms. Elsie B. Monsanto	Environmental Specialist	Philippines KECC	Original	10																																								Intermittent
				VO1	6																																								
IK-4	Mr. Michael S. Alcazaren	Resettlement Specialist	Philippines KECC	Original	10																																								Intermittent
				VO1	6																																								
Key Experts (National)																																													
NK-1	Mr. Sitthichai Angkathavanich	Area Engineer 1	Thai AEC	VO1	32																																								
				VO4	33.33																																								
NK-2	Mr. Sathitpong Mungphienman	Area Engineer 2	Thai AEC	Original	36																																								
				VO1	32																																								
NK-3	Mr. Withoon Chinchalongporn	Area Engineer 3	Thai AEC	VO1	32																																								
				VO4	36.50																																								
NK-4	Mr. Zadshari Boonzadthanashok	Construction Supervision Engineer 1	Thai AEC	VO1	30																																								
				VO4	33.33																																								
NK-5	Mr. Tawich Jittanoon	Construction Supervision Engineer 2	Thai AEC	VO3	24																																								
				VO4	26.37																																								
NK-6	Mr. Maitri Tamagosit	Construction Supervision Engineer 3	Thai AEC	Original	36																																								
				VO1	30																																								
NK-7	Mr. Siripong Sararit	Construction Supervision Engineer 4	Thai AEC	Original	36																																								
				VO1	30																																								
NK-8	Mr. Wallop Sawaengpol	Construction Supervision Engineer 5	Thai AEC	VO1	30																																								
				VO4	36.50																																								

[Handwritten Signature]

Intermittent: Reimburse as actual working time and not greater than Contract amount

Personnel Schedule

THA: Greater Mekong Subregion Highway Expansion Phase 2 Project Package No. CS1- Consulting Services for Construction Supervision Consultant					2018				2019								2020								2021					Remarks															
No.	Name	Position	Nationality /Firm	Person /Month	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		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
					1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th	10 th	11 th	12 th	13 th	14 th	15 th	16 th	17 th	18 th	19 th	20 th	21 st	22 nd	23 rd	24 th	25 th		26 th	27 th	28 th	29 th	30 th	31 st	32 nd	33 rd	34 th	35 th	36 th	37 th	38 th	39 th	
NK-9	Mr. Charuik Sutapintu	Construction Supervision Engineer 6	Thai AEC	VO1	30	[Shaded]																																							
				VO4	30.42	[Shaded]																																							
NK-10	Mr. Teeraphat Ngoates	Soil Engineer 1	Thai AEC	Original	36	[Shaded]																																							
				VO1	20	[Shaded]																																							
NK-11	Mr. Surathep Thanasupchusak	Soil Engineer 2	Thai AEC	Original	36	[Shaded]																																							
				VO1	20	[Shaded]																																							
NK-12	Mr. Pratum Pakvisate	Soil Engineer 3	Thai AEC	Original	36	[Shaded]																																							
				VO1	20	[Shaded]																																							
NK-13	Mr. Adisak Boonma	Asphalt Engineer 1	Thai AEC	VO1	10	[Shaded]																																							
				VO4	13.33	[Shaded]																																							
NK-14	Mr. Amporn Ratree	Asphalt Engineer 2	Thai AEC	Original	24	[Shaded]																																							
				VO1	10	[Shaded]																																							
NK-15	Mr. Theerayut Piyakittisuk	Asphalt Engineer 3	Thai AEC	VO1	10	[Shaded]																																							
				VO4	13	[Shaded]																																							
NK-16	Mr. Sarawoot Suebchaiwang	Highway Engineer	Thai AEC	Original	24	[Shaded]																																							
NK-17	Dr. Wichuda Satiennam	Road Safety Audit Specialist	Thai AEC	Original	12	[Shaded]																																							Intermittent
NK-18	Dr. Vatanavongs Ratanavaraha	Road Safety Training and Campaign Specialist	Thai AEC	Original	12	[Shaded]																																							Intermittent
NK-19	Dr. Nakorn Srithiwong	Environmental Specialist	Thai AEC	Original	24	[Shaded]																																							Intermittent
NK-20	Mr. Veerasak Aungsutharn	Resettlement Specialist	Thai AEC	Original	24	[Shaded]																																							Intermittent
NK-21	Dr. Suthep Silapanuntakul	HIV/AIDS Awareness Specialist	Thai AEC	Original	12	[Shaded]																																							Intermittent
NK-22	Ms. Panisara Suebchaiwang	Gender/Social Development Specialist	Thai AEC	Original	12	[Shaded]																																							Intermittent
NK-23	Mr. Vorasett Chovichien	Civil Office Engineer 1	Thai AEC	Original	36	[Shaded]																																							
				VO4	38.50	[Shaded]																																							
NK-24	Mr. Rachatadharakorn Jureeganon	Civil Office Engineer 2	Thai AEC	Original	36	[Shaded]																																							
				VO4	38.50	[Shaded]																																							

Appendix C: Remuneration Cost Estimates

- Summary of Costs
- Breakdown of Remuneration

A handwritten signature in blue ink, consisting of a large, stylized 'O' followed by a horizontal line.A small, handwritten signature in blue ink, appearing to be 'M. K.'.A small, handwritten signature in blue ink, appearing to be 'J.'.

SUMMARY OF COSTS

Item	Cost	
	Foreign Currency (USD)	Local Currency (THB)
Competitive Components		
Remuneration, Key Experts	858,000.00	75,448,510.00
Remuneration, Non-Key Experts		27,565,250.00
Reimbursable Expenses	430,531.40	19,866,570.05
Sub-Total	1,288,531.40	122,880,330.05
Non-Competitive Components		
Provisional Sums ¹		66,859,736.04
Contingency ¹		33,352,802.91
Sub-Total		100,212,538.95
Total Cost (Excluding VAT)	1,288,531.40	223,092,869.00
Indirect Local Tax		
(i) Value Added Tax (VAT) 50% of 7% ²		
Remuneration, Key Experts and Non-Key Experts	30,030.00	3,605,481.60
Reimbursable Expenses, Provisional Sums and Contingency	15,068.60	4,202,768.81
Total VAT 7% on 50% of Total	45,098.60	7,808,250.41
Total Cost of the Ceiling Amount (Including VAT)	1,333,630.00	230,901,119.41
Total Cost of the Ceiling Amount in Thai Baht		272,920,600.00

- Provisional Sums and Contingency amounts are agreed to convert into local Thai Baht for the payment purpose, and the Client clarifies in the Contract Negotiation that the amount of Reimbursable Expenses, estimated Provisional Sums and Contingency in the TOR are including VAT 7% of 50% payment.
 Currency Exchange Rate is 1 USD = 31.5076 THB (Bank of Thailand selling rate on proposal submission date March 7, 2018)
- The Indirect Local Tax confirmed in the Contract Negotiation is VAT (7% for Thai Government portion + 0% ADB loan portion)

on *2018*

J

Remuneration Cost Estimates (FINAL & VO1 & VO2 & VO3 & VO4)

THA: Greater Mekong Subregion Highway Expansion Phase 2 Project

Package No. CS1- Consulting Services for Construction Supervision Consultant

BREAKDOWN OF REMUNERATION

No.	Name	Nationality	Currency	Person-month Remuneration Rate (Home)	Time Input in Person/Month (from TECH-6) (Home)	Foreign Currency (USD)	Local Currency (THB)
	Position (as in TECH-6)	Firm		Person-month Remuneration Rate (Field)	Time Input in Person/Month (from TECH-6) (Field)		
KEY EXPERTS (International)							
IK-1	Mr. Kim, Seon Joong	Korea	USD				
	Project Manager / Team Leader	KECC		12,000	35.50	426,000.00	
IK-2	Mr. Baek, Hyon Su	Korea	USD				
	Road Safety Expert/ Road Safety Resource Person	KECC		12,000	24.00	288,000.00	
IK-3	Ms. Elsie B. Monsanto	Philippines	USD				
	Environmental Specialist	KECC		12,000	6.00	72,000.00	
IK-4	Mr. Michael S. Alcazaren	Philippines	USD				
	Resettlement Specialist	KECC		12,000	6.00	72,000.00	
Sub-Total Costs : Key Experts (International) (Excluding VAT)						858,000.00	-
KEY EXPERTS (National)							
NK-1	Mr. Sitthichai Angkathavanich	Thai	THB				
	Area Engineer 1 (Package I and J)	AEC		185,000	33.33	6,166,050.00	
NK-2	Mr. Sathitpong Mungphlenman	Thai	THB				
	Area Engineer 2 (Package K and L)	AEC		185,000	32.00	5,920,000.00	
NK-3	Mr. Withoon Chinchalongporn	Thai	THB				
	Area Engineer 3 (Package M and N)	AEC		185,000	36.50	6,752,500.00	
NK-4	Mr. Zadsharl Boonzadthanashok	Thai	THB				
	Construction Supervision Engineer 1 (Package I)	AEC		92,000	33.33	3,066,360.00	
NK-5	Mr. Tawich Jittanoon	Thai	THB				
	Construction Supervision Engineer 2 (Package J)	AEC		130,000	26.37	3,428,100.00	
NK-6	Mr. Maitri Tamagosit	Thai	THB				
	Construction Supervision Engineer 3 (Package K)	AEC		130,000	30.00	3,900,000.00	
NK-7	Mr. Siripong Sararit	Thai	THB				
	Construction Supervision Engineer 4 (Package L)	AEC		130,000	30.00	3,900,000.00	
NK-8	Mr. Wallop Sawaengpol	Thai	THB				
	Construction Supervision Engineer 5 (Package M)	AEC		92,000	36.50	3,358,000.00	
NK-9	Mr. Charuik Sutapintu	Thai	THB				
	Construction Supervision Engineer 6 (Package N)	AEC		130,000	30.42	3,954,600.00	
NK-10	Mr. Teeraphat Ngoates	Thai	THB				
	Soil Engineer 1 (Package I and J)	AEC		92,000	20.00	1,840,000.00	
NK-11	Mr. Suratep Thanasupchusak	Thai	THB				
	Soil Engineer 2 (Package K and L)	AEC		130,000	20.00	2,600,000.00	
NK-12	Mr. Pratum Pakvisate	Thai	THB				
	Soil Engineer 3 (Package M and N)	AEC		130,000	20.00	2,600,000.00	
NK-13	Mr. Adisak Boonma	Thai	THB				
	Asphalt Engineer 1 (Package I and J)	AEC		130,000	13.33	1,732,900.00	
NK-14	Mr. Amporn Ratree	Thai	THB				
	Asphalt Engineer 2 (Package K and L)	AEC		130,000	10.00	1,300,000.00	
NK-15	Mr. Theerayut Piyakiattisuk	Thai	THB				
	Asphalt Engineer 3 (Package M and N)	AEC		130,000	13.00	1,690,000.00	
NK-16	Mr. Sarawoot Suebchaiwang	Thai	THB				
	Highway Engineer	AEC		130,000	24.00	3,120,000.00	
NK-17	Dr. Wichuda Satiennam	Thai	THB				
	Road Safety Audit Specialist	AEC		130,000	12.00	1,560,000.00	

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Remuneration Cost Estimates (FINAL & VO1 & VO2 & VO3 & VO4)

THA: Greater Mekong Subregion Highway Expansion Phase 2 Project

Package No. CS1- Consulting Services for Construction Supervision Consultant

BREAKDOWN OF REMUNERATION

No.	Name	Nationality	Currency	Person-month Remuneration Rate (Home)	Time Input in Person/Month (from TECH-6) (Home)	Foreign Currency (USD)	Local Currency (THB)
	Position (as in TECH-6)	Firm		Person-month Remuneration Rate (Field)	Time Input in Person/Month (from TECH-6) (Field)		
NK-18	Dr.Vatanavongs Ratanavaraha	Thai	THB				
	Road Safety Training and Campaign Specialist	AEC		130,000	12.00		1,560,000.00
NK-19	Mr. Nakorn Srithiwong	Thai	THB				
	Environmental Specialist	AEC		125,000	24.00		3,000,000.00
NK-20	Mr. Veerasak Aungsutharn	Thai	THB				
	Resettlement Specialist	AEC		130,000	24.00		3,120,000.00
NK-21	Dr. Suthep Silapanuntakul	Thai	THB				
	HIV/AIDS Awareness Specialist	AEC		100,000	12.00		1,200,000.00
NK-22	Ms. Panisara Suebchaiwang	Thai	THB				
	Gender/Social Development Specialist	AEC		100,000	12.00		1,200,000.00
NK-23	Mr. Vorasett Chovichien	Thai	THB				
	Civil Office Engineer 1	AEC		100,000	38.50		3,850,000.00
NK-24	Mr. Rachatadharakorn Jureeganon	Thai	THB				
	Civil Office Engineer 2	AEC		100,000	38.50		3,850,000.00
NK-25	Mr. Wanchai Panompornpanich	Thai	THB				
	Bridge Engineer	AEC		130,000	6.00		780,000.00
Sub-Total Costs : Key Experts (National) (Excluding VAT)							75,448,510.00
Total Costs : Key Experts (International and National) (Excluding VAT)						858,000.00	75,448,510.00
NON-KEY EXPERTS							
NN-1	TBN	Thai	THB				
	Draftspersons	AEC		40,000	34.00		1,360,000
NN-2	TBN	Thai	THB				
	Draftspersons	AEC		40,000	34.00		1,360,000
NN-3	TBN	Thai	THB				
	Financial Control and Account	AEC		60,000	36.00		2,160,000
NN-4	TBN	Thai	THB				
	Project (bilingual) Secretary (HO)	AEC		40,000	38.50		1,540,000
NN-5	TBN	Thai	THB				
	Project (bilingual) Secretary (Package I)	AEC		40,000	33.33		1,333,200
NN-6	TBN	Thai	THB				
	Project (bilingual) Secretary (Package J)	AEC		40,000	26.37		1,054,800
NN-7	TBN	Thai	THB				
	Project (bilingual) Secretary (Package K)	AEC		40,000	30.00		1,200,000
NN-8	TBN	Thai	THB				
	Project (bilingual) Secretary (Package L)	AEC		40,000	30.00		1,200,000
NN-9	TBN	Thai	THB				
	Project (bilingual) Secretary (Package M)	AEC		40,000	33.50		1,340,000
NN-10	TBN	Thai	THB				
	Project (bilingual) Secretary (Package N)	AEC		40,000	30.00		1,200,000
NN-11	TBN	Thai	THB				
	Site Engineer (Package I)	AEC		45,000	30.33		1,364,850
NN-12	TBN	Thai	THB				
	Site Engineer (Package J)	AEC		45,000	24.00		1,080,000
NN-13	TBN	Thai	THB				
	Site Engineer (Package K)	AEC		45,000	30.00		1,350,000

Remuneration Cost Estimates (FINAL & VO1 & VO2 & VO3 & VO4)

THA: Greater Mekong Subregion Highway Expansion Phase 2 Project

Package No. CSI- Consulting Services for Construction Supervision Consultant

BREAKDOWN OF REMUNERATION

No.	Name	Nationality	Currency	Person-month Remuneration Rate (Home)	Time Input in Person/Month (from TECH-6) (Home)	Foreign Currency (USD)	Local Currency (THB)
	Position (as in TECH-6)	Firm		Person-month Remuneration Rate (Field)	Time Input in Person/Month (from TECH-6) (Field)		
NN-14	TBN	Thai	THB				
	Site Engineer (Package L)	AEC		45,000	30.00		1,350,000
NN-15	TBN	Thai	THB				
	Site Engineer (Package M)	AEC		45,000	33.50		1,507,500
NN-16	TBN	Thai	THB				
	Site Engineer (Package N)	AEC		45,000	30.00		1,350,000
NN-17	TBN	Thai	THB				
	Inspector (Package I)	AEC		30,000	30.33		909,900
NN-18	TBN	Thai	THB				
	Inspector (Package J)	AEC		30,000	24.00		720,000
NN-19	TBN	Thai	THB				
	Inspector (Package K)	AEC		30,000	30.00		900,000
NN-20	TBN	Thai	THB				
	Inspector (Package L)	AEC		30,000	30.00		900,000
NN-21	TBN	Thai	THB				
	Inspector (Package M)	AEC		30,000	33.50		1,005,000
NN-22	TBN	Thai	THB				
	Inspector (Package N)	AEC		30,000	30.00		900,000
NN-23	TBN	Thai	THB				
	Project (bilingual) Secretary	AEC		40,000	12.00		480,000
Total Costs : Non-Key Experts (Excluding VAT)							27,565,250
TOTAL COST : KEY EXPERTS AND NON-KEY EXPERTS (Excluding VAT)						858,000.00	103,013,760.00
VAT 7% on 50% Government Portion						30,030.00	3,605,481.60
TOTAL COSTS : KEY EXPERTS AND NON-KEY EXPERTS (Including VAT)						888,030.00	106,619,241.60

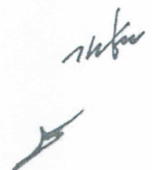
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Appendix D: Other Expenses and Provisional Sums

- Breakdown of Other Expenses, Provisional Sums and Contingency



BREAKDOWN OF OTHER EXPENSES, PROVISIONAL SUMS AND CONTINGENCY							
No	Type of Expenses, Provisional Sums and Contingency	Quantity	Unit	Currency	Unit Price	Foreign Currency (USD)	Local Currency (THB)
Reimbursable Expenses							
1	Per Diem Allowances ; at fixed cost - International Experts	2,070	Day	USD	200	414,000.00	
2	International Flights ; at fixed cost - Seoul(Manila) - Bangkok - Seoul(Manila)	16	R-Trip	USD	1,000	16,000.00	
3	Miscellaneous travel expenses; at fixed cost (In/Out Transportation, etc.)	16	R-Trip	USD	150	2,400.00	
4	Communication costs; at fixed cost	36	Month	USD	100	3,600.00	
5	Production of reports; at fixed cost	38	Month	THB	13,800		524,400.00
6	Office Operation cost; at fixed cost (HO+ 3 Sites)	38	Office-Month	THB	40,000		1,520,000.00
7	Rental & Operation of Vehicle; at fixed cost - for Team Leader & Other Engineers include the driver (7 Vehicles)	266	Car-Month	THB	30,000		7,980,000.00
8	Duty Travel ; at fixed cost - International Experts (Flights) - National Experts (Accommodation & Living Expenses)	80 21,075	Day Day	USD THB	120 500	9,600.00	10,537,500.00
Sub-Total : Reimbursable Expenses (Including VAT)						445,600.00	20,561,900.00
Sub-Total : Reimbursable Expenses (Excluding VAT)						430,531.40	19,866,570.05
Provisional Sums							
a.	Environmental Equipment	1	L/S	USD	50,000	50,000	1,575,380.00
b.	Survey(Topographic, designs)	1	L/S	USD	60,000	60,000	1,890,456.00
c.	Project Evaluation Equipment						
	i. Road condition survey vehicle with 3D surface scan						
	(1) SUV Survey vehicle	1	L/S	USD	45,000	45,000	1,417,842.00
	(2) Road measurement system with analysis software	1	L/S	USD	974,000	974,000	30,688,402.40
	(3) Pavement condition data report						
	-After construction	1	L/S	USD	30,300	30,300	954,680.28
	-2 Months after construction	1	L/S	USD	30,300	30,300	954,680.28
	ii. Survey vehicle for collect environmental and road safety device data						
	(1) Van Survey vehicle	1	L/S	USD	39,400	39,400	1,241,399.44
	(2) Environmental and read safety Measurement Device	1	L/S	USD	181,800	181,800	5,728,081.68
	(3) Environmental data report during construction stage						
	-5time@0%/25%/50%/75%/100% of construction	5	L/S	USD	9,090	45,450	1,432,020.42
	iii. UAV for construction site survey						
	(1) Quad multi-robot with 4 direction avoidance sensor	1	L/S	USD	9,090	9,090	286,404.08
	(2) Processing software and uav mission planner	1	L/S	USD	12,100	12,100	381,241.96
	(3) UAV data report during construction stage						
	-5time@0%/25%/50%/75%/100% of construction	5	L/S	USD	7,270	36,350	1,145,301.26
d.	SUV Survey Vehicle	7	L/S	USD	45,000	315,000	9,924,894.00
e.	Financial Report System+Computers						
	i. Desktop Computer	5	L/S	USD	900	4,500	141,784.20
	ii. Notebooks	5	L/S	USD	600	3,000	94,522.80
f.	Domestic Trainings(5Times)	5	L/S	USD	16,000	80,000	2,520,608.00
g.	International Trainings(10 Persons)	10	L/S	USD	10,000	100,000	3,150,760.00
h.	Environmental Measurement	1	L/S	USD	10,000	10,000	315,076.00
i.	Resettlement Measurement	1	L/S	USD	10,000	10,000	315,076.00
j.	Road Safety Campaign	1	L/S	USD	10,000	10,000	315,076.00
k.	CSC office Renovation	1	L/S	USD	100,000	100,000	3,150,760.00
l.	CSC office Furniture	1	L/S	USD	50,000	50,000	1,575,380.00
Sub-Total : Provisional Sums (Including VAT)							69,199,826.80
Sub-Total : Provisional Sums (Excluding VAT)							66,859,736.04
Contingency (Including VAT)							34,520,151.01
Contingency (Excluding VAT)							33,352,802.91
TOTAL COSTS : REIMBURSABLE + PROVISIONAL SUMS + CONTINGENCY (Including VAT)						445,600.00	124,281,877.81
VAT 7% on 50% Government Portion						15,068.60	4,202,768.81
TOTAL COSTS : REIMBURSABLE + PROVISIONAL SUMS + CONTINGENCY (Excluding VAT)						430,531.40	120,079,109.00

* Provisional Sums and Contingency are converted into Thai Baht.