

# **Construction and Civil Engineering Consortium**

## **Framework of Cooperation**

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1. Bandung State Polytechnic, Indonesia.
  2. National Polytechnic Institute of Cambodia
  3. Regional Polytechnic Institute Techo Sen Takao of Cambodia
  4. Savannaket Technical Vocational School
  5. Phuket Technical Collage
  6. Dusit Technical Collage
  7. Nongkai technical collage
  8. Udonthani Technic Collage
  9. Nawamintrachinee Mae Hong Son Industrial Community Education Collage
  10. Kampongthomchheuteat High School
  11. Chiang Mai Technical College
- (hereinafter referred to as "Sides")

Noting the importance of education in national development, and the value of international cooperation and policy dialogue in education.

Have reached the following understanding:

### **Article 1**

#### **Objectives and Principles**

1. This agreement (hereinafter referred to as the "FOC") intends to set out the general principles of mutual cooperation in the field of education, according to which the Sides may jointly identify areas of mutual interest and carry out cooperative activities on the basis of reciprocity and mutual benefit.
2. This FOC will be carried out within the framework of the respective laws and regulations of the two countries.

### **Article 2**

#### **Scope of Cooperation**

1. Cooperative activities under this FOC will be carried out in the fields of Construction and Civil Engineering .
2. The Sides will endeavor to encourage and facilitate, as appropriate, the development of contact and cooperation in the field of vocational education between the interested organizations and institutions of the two countries.
3. The Sides will encourage the following cooperative activities, in particular:
  - a. the exchange of information on their respective educational systems and policies to assist in ongoing education exchange and to facilitate the recognition of each other's vocational Certificates, Diplomas and Degrees and student/staff mobility, content mobility as well as cross industrial internship for the agreed period which is focused in the Construction and Civil Engineering and other areas of interest by the sides.

- b. the exchange and professional development of officials, academics, scholars, teachers, experts, students and administrative staff;
- c. collaboration between education institutions of the four countries in joint delivery and research programs and publications, including exchange of research materials, publications and educational literature;
- d. joint conference, exhibitions and symposia on matters of mutual interest; and
- e. other forms of cooperation in mutually determined and targeted areas of language education and quality of learning improvement through Open and Distance Learning.

### **Article 3**

#### **Implementation and Funding**

1. The Sides will establish a joint committee for policy dialogue to regularly exchange information and experience on education challenges and reform, and to identify priorities for cooperation in the field of vocational education.
2. The cost of cooperative activities may be funded as mutually determined. All cooperative activities under this FOC will be subject to the availability of funds to the Sides

### **Article 4**

#### **The Roles of Participating Parties**

1. Indonesia Vocational Schools, Indonesia Community Colleges, Indonesia Polytechnics as well as Thailand Colleges as participating parties participated in the consortiums as well as execute consortium activities as a part of cooperation.
2. SEAMEO Secretariat, SEAMOLEC, SEAMEO Voctech and Bureau of International Cooperation OVEC as participating parties appointed by Sides, responsible as joint committee conceiver and facilitator in how the cooperation will put into practice.

### **Article 5**

#### **Dispute Settlement**

The Sides will consult together upon request of either side regarding any matter relating to the terms of this FOC and will endeavor jointly in a spirit of cooperation and mutual trust to resolve any difficulties or misunderstandings which may arise.

### **Article 6**

#### **Amendment**

If either Sides wishes to make changes within FOC content, this FOC may be amended by mutual written consent of the Sides.

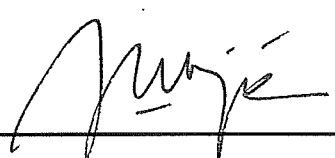




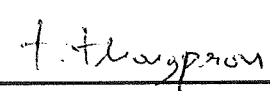
**Article 7**  
**Entry into Force and Termination**




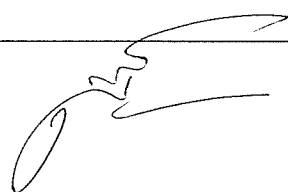
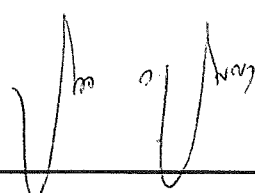
1. This FOC will come into effect on the date of signature.
2. This FOC will remain in effect for an initial period of three (3) years and will be evaluated each year, unless either side of notifies the other side, in writing, of its intention to terminate this FOC at least three (3) months before the expiry date of the relevant period.

SIGNED in duplicate in Bangkok on the 14<sup>th</sup> day of August 2014 by Sides and Witnessed by SEAMOLEC, Indonesia and OVEC, Thailand.



Date: 27 November 2015

**Signed by**

	
College 1: Bandung State Polytechnic, Indonesia.	College 2 : National Polytechnic Institute of Cambodia
	
College 3 : Regional Polytechnic Institute Techo Sen Takao of Cambodia	College 4 : Savannaket Technical Vocational School
	
College 5 : Phuket Technical College	College 6 : Dusit Technical College

	
College 7 : Nongkai Technical College	College 8 : Udonthani Technical College 
	
College 9: Nawamintrachinee Mae Hong Son Industrial Community Education College	College 10 : Kampongthomchheuteal High School 
	
College 11: Chiang Mai Technical College	

**Witnessed by**

	
Mrs Puttachard Suphalucksa Director, Centre for International Vocational Education Cooperation (CIVC) Office of Vocational Educational Commission OVEC, Ministry of Education, Thailand	Dr Gatot Hari Priowirjanto Director, SEAMEO Secretariat Thailand



**Director Meeting on SEA-TVET**  
**“Country-Level Workshop on Harmonisation and Mobility”**

26-28 November 2015 at Laithong Hotel, Ubon Ratchathani, Thailand  
 Hosted by the Office of Vocational Education Commission, Ministry of Education Thailand

**Agreement Framework of Cooperation**

Group                      Construction and Engineering                      :

Name of Group Moderator                      : Mr. Panyachart Wongpanya  
 Email of Group Moderator                      : panyachart@cmtc.ac.th  
 Mobile Phone of Group Moderator                      : +66 83 565 5595

Name of Rapporteur                      : Ms. Niparueradee Pinyajeerapat  
 Email of Group Rapporteur:                      niparueradee@gmail.com  
 Mobile Phone of Group Rapporteur                      : +66 89 796 9319

	Institution 1	Institution 2	Institution 3
<b>Name</b>	Dr. Ir. Rachmad Imbang Tritjahjono	Mr. Muong Phasy	Mr. Pann Nora
<b>Position</b>	Director	Vice-President	Director
<b>Roles and Responsibilities</b>			
<b>Name of Institute</b>	State polytechnic of Bandung	National Polytechnic Institute of Cambodia	Regional Polytechnic Institute Techo Sen Takeo
<b>City</b>	Bandung, Indonesia	Phnom Penh, Cambodia	Takeo Province , Cambodia
<b>Courses offered</b>	3 years diploma program <ul style="list-style-type: none"> <li>• Building construction</li> <li>• Civil construction</li> </ul> 4 year Bachelor program <ul style="list-style-type: none"> <li>• road and bridge design</li> <li>• building, maintenance, and repair engineering</li> </ul> 2 years Master programs <ul style="list-style-type: none"> <li>• Infrastruction engineering</li> </ul>	1 year certificate (culinary) 3 years certificate (automobile, electricity, electronic, machine tool, welding) 2 years diploma (electricity, electronic, construction, machine tool, air conditioning , automobile, information technology) 4-5 years bachelor (civil engineering, electricity, architecture, electronic, mechanic, automobile, computer science,	3 years certificate (electricity, electronic, construction, automobile, information technology) 2 years diploma (electricity, electronic, automobile, construction, computer technology) 4 years bachelor (electricity, civil engineering, computer science, accounting)

		hospitality and tourism)	
<b>Certification level (Diploma, certificate)</b>	3- years diploma 2 year master program software engineer, 4 year bachelor program	3 years certificate 2 years diploma 4-5 years bachelor	3 year certificate and diploma programme 2 year diploma 4 year bachelor
<b>Specialization and or achievements in programmes</b>	Construction and Civil engineering;	Construction and Civil engineering;	Construction and Civil engineering;
<b>Experience in teacher and student exchange</b>	<ul style="list-style-type: none"> <li>• Yes The student exchanges with Spain, Taiwan and Germany (final project on the last year of college). Researcher exchange-pay everything by their own for research collaboration (In Germany for civil engineering, not yet in Thailand)</li> <li>• Strategies: Having close relation with the partner universities via several cross cultural understanding exchanges (i.e Summer camps). Then, signed MoU with the partner Universities. Through the partner universities' connections, student exchanges were taken place with the host country industrial companies. Once the collage got recognition, the student exchanges is directly done with the industrial companies. Next year, a summer camp to be conducted and will invite students from other counties to have a discussion for one week just to</li> </ul>	<ul style="list-style-type: none"> <li>• Yes (with Yasothorn Technical college-lecturer/teacher/student exchange started with cultural camp (one week).</li> <li>• Teacher exchange: Rachamonkala Technology Lanna and Thonburi and in Vietnam.</li> <li>• It is a policy for sending teachers to learn about the education system of other countries in the region. They are allowed to go and bring back ideas for improvement at one's own budget. For students' exchange, students also pay for themselves. In case of invitation through the government, then the government will allocate the budget for that particular student/teacher. The selection is conducted to choose the right qualified</li> </ul>	Yes

	<p>understand about the collage's education system and country's culture.</p> <ul style="list-style-type: none"> <li>• Cost and budget: Free tuition and accommodation- collage's dormitory. The students can pay out from their pocket they would like to have a luxury accommodation.</li> <li>• Challenges: Food-got stomach upset, local transportation,</li> <li>• Benefit: cross cultural understanding, academic standard measured by international industrials/institutions. Won the International competition in the USA for 10 medals- international recognition. Funding 50% is from central government and another 50% is from own collage's budget.</li> </ul>	<p>students/teachers to meet the sponsor's expectation. However, every teacher can go aboard organizing by teachers themselves.</p> <ul style="list-style-type: none"> <li>• Student exchange on Computer science program with poly technic with Indonesia. Four years already. Three year in Cambodia, last year in Indonesia (bachelor degree). Dual degree for the students.</li> <li>• Teacher two-three to one month program. Depending on the subject of interests.</li> <li>• This year, 20 Indonesia students will come for the student exchange in Phnomphen. Initially, tuition fee-SEMOLEC paid for 100%, later on 50% from SEMOLEC and 50% from own expense. Curriculum mapping and submit to the ministry of Education and followed through the action plans. Political mapping or student exchange to connect and building the understanding.</li> </ul>	
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		<p>MOU and MOA. Now, has 26 polytechnic collages from Indonesia as partners</p> <ul style="list-style-type: none"> <li>Chonju, Korean technic collage: 4 years program ( 2 years in Thailand and 2 years in get 4 year degree. Done this every year. Start from Grade 9 graduation to study for 3 years to get certificate, then another 2 years for the associate diploma.</li> </ul>	
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	Institution 4	Institution 5	Institution 6
<b>Name</b>	Mr. Saleumsy Latanavichith	Mr. Suriya Sawareephon	Mr. Veerapot Preepul
<b>Position</b>	Deputy Director	Head of cooperation division	Deputy Direcotr
<b>Roles and Responsibilities</b>			
<b>Name of Institute</b>	Savannaket technical vocational school	Nongkai technical collage	Udonthani Technic Collage
<b>City</b>	Savannaket, Lao	Nongkai Province, Thailand	Udonthani Province, Thailand
<b>Courses offered</b>	3 years diploma program <ul style="list-style-type: none"> <li>Building construction</li> <li>Civil construction including road and bridge, surveying, building, carpentering)</li> </ul> 3 years certificate 2 years certificate	3 years certificate 2 years diploma 2 years bachelor	3 years certificate 2 years diploma 2 years bachelor
<b>Certification level (Diploma, certificate)</b>	For high school (Mor 7) and take 3 years program diploma, 2 years for bachelor. 2. Second school (Mor 3), take 3 year for certificate, 2 years to diploma	Certificate and Diploma	Certificate and Diploma
<b>Specialization and or achievements in programmes</b>	Construction and Civil engineering	Construction and civil engineering	Construction and civil engineering



<b>Experience in teacher and student exchange</b>	Yes, Had an MoU with That-phranom Technical college. Construction for high school (grade??) and take 3 years program diploma, 2 years for bachelor. For Second school (Grade ), take 3 year for certificate, another 2 years for diploma. Teacher exchange program, not students exchange for 2-3weeks by interest of a subject. MoU- Thailand paid for all expenses (TICA sponsored)	No, but interest in teacher/student exchange. Want to explore the possibility with Lao, Cambodia and Viet Nam	No, but interested in exploring partnership with Lao, Indonesia and Cambodia
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	<b>Institution 7</b>	<b>Institution 8</b>	<b>Institution 9</b>
<b>Name</b>	Mr. Adisak Chutehavate	Mr. Chukiat Saipemya	Mr. Thalerngsak Thongpron
<b>Position</b>	Director	Assistant Director	Head of civil technician
<b>Roles and Responsibilities</b>			
<b>Name of Institute</b>	Phuket Technical Collage	Nawamintrachinee Mae Hong Son Industrial Community Education Collage	Dusit Technical collage
<b>City</b>	Phuket Province, Thailand	Mae Hong Son Province, Thailand	Bangkok, Thailand
<b>Courses offered</b>	Construction and Engineering	Construction and Engineering	Construction and Engineering
<b>Certification level (Diploma, certificate)</b>	3 years certificate 2 years diploma	3 years certificate 2 years diploma	3 years certificate 2 years diploma (construction, civil engineering, architecture, survey, furniture making) 2 years bachelor (construction technology)
<b>Specialization and or achievements in programmes</b>	Construction and Engineering	Construction and Engineering	Construction and Engineering
<b>Experience in teacher and student exchange</b>	Yes. Student exchange with Theing-Jin Poly technic University, China in Electronic area. A short course-two months in China (English program). Students paid for air ticket and cost of living (10,000 baht/month). Free accommodation and tuition. Transfer credit into Thai system.	No, Currently provide technical support to the government high school in Myanmar under the Loi Koh university in Myanmar near Mae Hong Son. TOT workshop of teachers 4 construction, electronic, automotive, electricity to be added to more in computer and welding 150 hours training	Yes. MoU with Indonesia technic collage. SMKN1. Sidoarjo . Student and teacher exchange for cost estimation (Unit of construction-computer). Using the EDMO module-distance learning module, then spend two- weeks to one

		for teachers , 200 hours when they teach their students. Reconized by MoL of Myanmar. ACTED foundation (sponsored and coordination OVEC as well) MoU with Ministry o Science (technical support to Myanmar. Challenge: transportation –fly only and go through custom service- time consuming inconvenience. Scholarship offering to Myanmar students, not yet come (visa procedure and student selection for scholarship –certificate and diploma	month in Indonesia. Free accommodation, but paid for air tickets same when Indonesian student/teacher come to Thailand. Budget is from the OVEC.
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	Institution 10	Institution 11	Institution 12
<b>Name</b>	Mr. Phang Seyha	Mr. Panyachart Wongpanya	
<b>Position</b>	Civil Engineering (Teacher)	Deputy Director	
<b>Roles and Responsibilities</b>			
<b>Name of Institute</b>	Kampongthomchheuteat High School	Chiang Mai Technical Collage	
<b>City</b>	Kampongthom, Cambodia	Chiang Mai Province, Thailand	
<b>Courses offered</b>	3 years Certificate	3 years certificate 2 years diploma	
<b>Certification level (Diploma, certificate)</b>	Certificate		
<b>Specialization and or achievements in programmes</b>	Electricity and electronic, architecture, animal science	Construction and Engineering	
<b>Experience in teacher and student exchange</b>	No		

**a) Experiences in conducting teacher/student exchanges (List down the name of institutions)**

1. Bandung State Polytechnic, Indonesia.
2. National Polytechnic Institute of Cambodia
3. Regional Polytechnic Institute Techo Sen Takao of Cambodia
4. Savannaket Technical Vocational School
5. Phuket Technical Collage
6. Dusit Technical Collage

**b). Other concerns**

None, but reported the sources of funding such as TICA-funding source, ADB (Asian development Bank)

### JOINT ACTION PLAN

No.	Agreed Joint Activities	Partners (Name of Institutions)	Targeted participants of this activities (management, teachers, students, staff, researchers, etc)	Number of targeted participants	When to do
1	<ol style="list-style-type: none"> <li>High Official Study visit to learn and understand each other system</li> <li>Teacher Visits to know and learn at program level; curriculum mapping; Development student/teacher exchange programs</li> </ol> <p>Level: Certificate and diploma</p> <p>Area of Specialization: General Construction and Engineering ..</p>	<ul style="list-style-type: none"> <li>Chiang Mai Technical Collage</li> <li>National Polytechnic Institute of Cambodia</li> <li>Regional Polytechnic Institute Techo Sen Takeo</li> </ul>	<ol style="list-style-type: none"> <li>Management team</li> <li>Teachers</li> </ol>	Study visit s(15 per group)	Mid- year of 2016
2	<ol style="list-style-type: none"> <li>High Official Study visit to learn and understand each other system</li> <li>Teacher Visits to know and learn at program level; curriculum mapping; Development student/teacher exchange programs</li> </ol> <p>Level: Certificate and diploma..</p> <p>Area of Specialization: General Construction and engineering</p>	<ul style="list-style-type: none"> <li>Phuket Technical Collage</li> <li>National Polytechnic Institute of Cambodia</li> <li>Regional Polytechnic Institute Techo Sen Takeo of Cambodia</li> </ul>	<ol style="list-style-type: none"> <li>Manageme nt team</li> <li>Teachers</li> </ol>	Study visits (10-15 persons)	Mid-year of 2016
3	<ol style="list-style-type: none"> <li>High Official Study Visit</li> </ol>	<ul style="list-style-type: none"> <li>Dusit Technical Collage</li> <li>Bandung State</li> </ul>			

	Level: Diploma..  Area of Specialization: Education; Research; Community Services; Management Improvement; Others. .....	Polytechnic of Indonesia			
4		<ul style="list-style-type: none"> <li>Chiang Rai Technical collage</li> <li>Bandung State Polytechnic</li> </ul>			
4	<p>1. High Official Study visit to learn and understand each other system</p> <p>2. Teacher Visits to know and learn at program level; curriculum mapping; Development student/teacher exchange programs</p> <p>Level: Certificate, Diploma.....</p> <p>Area of Specialization: Nongkai (Construction in general) Udonthani (Construction in general) Cambodia (Electronic, Electricity, <b>construction</b>, Mechanic, Air conditioning, Automotive , information technology, industrial technology) Lao (road and bridge construction, survey, architecture, carpentry)</p>	<ul style="list-style-type: none"> <li>Nongkai Technical Collage</li> <li>Udonthani Technical Collage</li> <li>National Polytechnic Institute of Cambodia</li> <li>Regional Polytechnic Institute Techo Sen Takeo of Cambodia</li> <li>Savannaket Technical Vocational School)</li> </ul>	Management teachers (Management level first and then lecturers. Discuss first visit then discuss more the next steps. The last step will be students exchange)	5-10 people	Cambodia: June-July 2016 Udon/NongKai: 2016-October Lao: July-August, 2016

#### 1. Other concerns/issues

- Timeline not be as planned
- Mechanisms of Support-TVET consortium, Follow up the joint action plans-sending invitation letter, social medias to conduct the joint activities???

## Group Proposed Framework of Cooperation

### 1. TEACHER EXCHANGE MODEL

Details	Sub-group I	Sub-group II	Sub-group III
<b>Proposed by</b>	<ul style="list-style-type: none"> <li>Bandung State Polytechnic and</li> <li>Dusit Technical Collage</li> </ul>	<ul style="list-style-type: none"> <li>Nongkai Technical Collage</li> <li>Udonthani Technical Collage</li> <li>National Polytechnic Institute of Cambodia</li> <li>Regional Polytechnic Institute Techo Sen Takeo of Cambodia</li> <li>Savannaket Technical Vocational School)</li> <li>Phuket Technical Collage</li> <li>Chiang Mai Technical Collage</li> </ul>	
<b>Teacher profile (course/subject, level)</b>	Diploma (Civil engineering)	Diploma	
<b>Teacher requirements</b>	Minimum-master degree on civil engineering and has 5-10 years' experience in the field	At least Diploma and bachelor with 5 years' experience of teaching in this subject. Understand and communicate in English. Have a teacher certificate. Government Officer.	
<b>Number of participated teacher</b>	2 or more	2 or more	
<b>Teacher program (Teaching observation/teaching in classroom, train in the industry/other please mention.....)</b>	Joint research and curriculum mapping	Teaching in class room-Thai Train in the industry (Lao)	
<b>Duration</b>	4 months (2 +2 )	2 weeks	
<b>Start from ...until...</b>	2016, specific date and month to be decided	April1 (TBD), 2016	
<b>Who will be responsible for each expense</b>	Each party	Each party for the time being Free accommodation (Thailand and Cambodia)	
<b>- Airfare</b>			

- Visa and the consequences - Insurance (if any) - Accommodation - Local transportation - Other living expense - Salary - Others such as....			
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**What we have to do together to prepare teacher exchange program?**

1. Sending letter or email
2. Site visiting and debriefing of the plan and activities
3. Sending the selected teachers according to the academic period in each country.

**Other concerns/inputs to implement teacher exchange?**

1. Communication gaps in organization of the teacher exchange .
2. Visa condition (tied to national visa regulations. Min. 30 days visa)

## 2. STUDENT EXCHANGE MODEL (Dusit Technical Collage case for adaptation)

Details	Sub-group I	Sub-group II	Sub-group III
<b>Proposed by (name of institution)</b>	Dusit Technical College		
<b>Student profile (age, education level, course/subject)</b>	Certificate level		
<b>Student requirements</b>	TOEIC score training / English language requirement (Min 500 for teacher and 300 for student)		
<b>Number of participated student</b>	Due to the limited budget, only one teacher and one student selected.		
<b>Student program (sit-in classroom/on job training/other please mention.....)</b>			
<b>Duration</b>	2 weeks		

<b>Start from ...until...</b> - how long for study at host institutions(sit in classroom program)? - how long for industrial attachments?	Internship and industrial attachments		
<b>Who will be responsible for each expense</b> - Airfare - Visa and the consequences - Insurance (if any) - Accommodation - Local transportation - Other living expense - Tuition fee - Others such as....	Host country will be responsible for all expenses excluding airfare		

**What we have to do together to prepare student exchange program?**

- Sending an invite letter to vocational colleges in the receiving country.
- Sign MoU with Indonesia (SMKN1
- Select subject and responsible person
- Conduct teacher materials

**Other concerns/inputs to implement student exchange?**

The concern of this model is the lack of budget for accommodating exchange students from partner country, Indonesia



## Director Meeting on SEA-TVET “Country-Level Workshop on Harmonisation and Mobility”

26-28 November 2015 at Laithong Hotel, Ubon Ratchathani, Thailand  
*Hosted by the Office of Vocational Education Commission, Ministry of Education Thailand*

### Session 6,8,9: Group Discussion

### Template for Rapporteur

Group                      Construction and Engineering                      :

Name of Group Moderator                      : Mr. Panyachart Wongpanya  
 Email of Group Moderator                      : panyachart@cmtc.ac.th  
 Mobile Phone of Group Moderator                      : +66 83 565 5595  
 Name of Rapporteur                      : Ms. Niparueradee Pinyajeerapat  
 Email of Group Rapporteur                      : niparueradee@gmail.com  
 Mobile Phone of Group Rapporteur                      : +66 89 796 9319

### **PART I (DAY1- Session 6): Getting to know each other and learning from others**

	Institution 1	Institution 2	Institution 3
<b>Name</b>	Dr. Ir. Rachmad Imbang Tritjahjono	Mr. Muong Phasy	Mr. Pann Nora
<b>Position</b>	Director	Vice-President	Director
<b>Roles and Responsibilities</b>			
<b>Name of Institute</b>	State polytechnic of Bandung	National Polytechnic Institute of Cambodia	Regional Polytechnic Institute Techo Sen



			Takeo
<b>City</b>	Bandung, Indonesia	Phnom Penh, Cambodia	Takeo Province , Cambodia
<b>Courses offered</b>	3 years diploma program (building and civil construction) 4 year Bachelor program (road and bridge design, building, maintenance, and repair engineering) 2 years Master program (Infrastructure engineering)	1 year certificate (culinary) 3 years certificate (automobile, electricity, electronic, machine tool, welding) 2 years diploma (electricity, electronic, construction, machine tool, air conditioning , automobile, information technology) 4-5 years bachelor (civil engineering, electricity, architecture, electronic, mechanic, automobile, computer science, hospitality and tourism)	3 years certificate (electricity, electronic, construction, automobile, information technology) 2 years diploma (electricity, electronic, automobile, construction, computer technology) 4 years bachelor (electricity, civil engineering, computer science, accounting)
<b>Certification level (Diploma, certificate)</b>	3- years diploma 2 year master program software engineer, 4 year bachelor program	3 years certificate 2 years diploma 4-5 years bachelor	3 year certificate and diploma programme 2 year diploma 4 year bachelor
<b>Specialization and or achievements in programmes</b>	xxxx	Construction and Civil engineering;	
<b>Experience in teacher and student exchange</b>	<ul style="list-style-type: none"> <li>Yes, the student exchanges with Spain, Taiwan and Germany (final project on the last year of college). Researcher exchange- pay everything by their own for research collaboration (In Germany for civil engineering, not yet in Thailand)</li> <li>Strategies: Having close relation with the partner universities via several cross cultural understanding exchanges (i.e summer camps). Then, signed MoU with the partner Universities. Through the partner universities' connections, student exchanges were able to connect with</li> </ul>	<ul style="list-style-type: none"> <li>Yes (with Yasothorn Technical college- lecturer/teacher/student exchange started with cultural camp (one week).</li> <li>Teacher exchange: Rachamonkala Technology Lanna and Thonburi and in Vietnam.</li> <li>It is a policy for sending teachers to learn about the education system of other countries in the region. They are allowed to go and bring back ideas for improvement at one's own budget. For students' exchange, students also pay</li> </ul>	Yes

	<p>the host country industrial companies. Once the collage got recognition, the student exchanges was directly done with the industrial companies. Next year, a summer camp will be conducted and invite students from other counties to have a visit for one week just to understand about the collage's education system and country's culture.</p> <ul style="list-style-type: none"> <li>• Cost and budget: Free tuition and accommodation in the collage's dormitory. The students can pay from their pocket if they would like to have a luxury accommodation.</li> <li>• Challenges: Food-got stomach upset, local transportation,</li> <li>• Benefit: cross cultural understanding, academic standard measured by international industrials/institutions. Won the International competition in the USA for 10 medals- international recognition. Funding 50% is from central government and another 50% is from own collage's budget.</li> </ul>	<p>for themselves. In case of invitation through the government, then the government will allocate the budget for that particular student/teacher. The selection is conducted to choose the right qualified students/teachers to meet the sponsor's expectation. However, every teacher can go aboard organizing by teachers themselves.</p> <ul style="list-style-type: none"> <li>• Student exchange on Computer science program with an Indonesia poly technic collage. Four years degree exchange: three years study in Cambodia, one year-the last year before graduation study in Indonesia (bachelor degree). Student has a dual degree (from Indonesia and Cambodia)</li> <li>• Teacher 3, 2, or 1 month program. Depending on the subject of interests.</li> <li>• This year, 20 Indonesia students will come for the student exchange in Phnomphen. Initially, tuition fee was paid by SEMOLEC for 100%, later on reduced to 50% from SEMOLEC and 50% from own's expense. Curriculum</li> </ul>	
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		<p>mapping is done and submit to the ministry of Education and followed through the action plans. Political mapping or student exchange to connect and building the understanding. MOU and MOA. Now, has 26 polytechnic collages from Indonesia as partners</p> <ul style="list-style-type: none"> <li>• Chonju, Korean technic collage: 4 years program ( 2 years in Thailand and 2 years in get 4 year degree. Done this every year. Start from Grade 9 graduation to study for 3 years to get certificate, then another 2 years for the associate diploma.</li> </ul>	
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	<b>Institution 4</b>	<b>Institution 5</b>	<b>Institution 6</b>
<b>Name</b>	Mr. Saleumsy Latanavichith	Mr. Suriya Sawareephon	Mr. Veerapot Preepul
<b>Position</b>	Deputy Director	Head of cooperation division	Deputy Direcotr
<b>Roles and Responsibilities</b>			
<b>Name of Institute</b>	Savannaket technical vocational school	Nongkai technical collage	Udonthani Technic Collage
<b>City</b>	Savannaket, Lao	Nongkai Province, Thailand	Udonthani Province, Thailand
<b>Courses offered</b>	3 years diploma program <ul style="list-style-type: none"> <li>• Building construction</li> <li>• Civil construction including road and bridge, surveying, building,</li> </ul>	3 years certificate 2 years diploma 2 years bachelor	3 years certificate 2 years diploma 2 years bachelor

	carpentering) 3 years certificate 2 years certificate		
<b>Certification level (Diploma, certificate)</b>	Construction. For high school (Mor 7) and take 3 years program diploma, 2 years for bachelor. 2. Second school (Mor 3), take 3 year for certificate, 2 years to diploma	Certificate and Diploma	Certificate and Diploma
<b>Specialization and or achievements in programmes</b>	Construction and Civil engineering	Construction and civil engineering	Construction and civil engineering
<b>Experience in teacher and student exchange</b>	Yes, already had an MoU with That-phranom Technical college. Teacher exchange program, not students exchange for 2-3weeks by subject interest. MoU-Thailand paid for all expenses (TICA sponsored)	No, but interest in teacher/student exchange. Want to explore the possibility with Lao, Cambodia and Viet Nam	No, but interested in exploring partnership with Lao, Indonesia and Cambodia

	<b>Institution 7</b>	<b>Institution 8</b>	<b>Institution 9</b>
<b>Name</b>	Mr. Adisak Chutehavate	Mr. Chukiat Saipemya	Mr. Thalerngsak Thongpron
<b>Position</b>	Director	Assistant Director	Head of civil technician
<b>Roles and Responsibilities</b>			
<b>Name of Institute</b>	Phuket Technical Collage	Nawamintrachinee Mae Hong Son Industrial Community Education Collage	Dusit Technical collage
<b>City</b>	Phuket Province, Thailand	Mae Hong Son Province, Thailand	Bangkok, Thailand
<b>Courses offered</b>	Construction and Engineering	Construction and Engineering	Construction and Engineering
<b>Certification level (Diploma, certificate)</b>	3 years certificate 2 years diploma	3 years certificate 2 years diploma	3 years certificate 2 years diploma (construction, civil engineering, architecture, survey, furniture making) 2 years bachelor (construction technology)
<b>Specialization and or achievements in</b>	Construction and Engineering	Construction and Engineering	Construction and Engineering

programmes			
<b>Experience in teacher and student exchange</b>	Yes. Student exchange with Theing-Jin Poly technic University, China in Electronic area. Short course-two months in China (English program). Students paid for air ticket and cost of living (10,000 baht/month). Free accommodation and tuition. Transfer credit into Thai system.	No, Currently provide technical support to a government high school in Myanmar in collaboration with the Loi Koh university in Myanmar located near Mae Hong Son province. TOT workshops for teachers in construction, electronic, automotive, electricity. Computer and welding for 150 hours training for teachers, but 200 hours for the same courses required for students. Recognized by MoL of Myanmar. ACTED foundation (sponsored and coordination with OVEC as well) MoU with Ministry of Science (technical support to Myanmar. Challenges: transportation –by ariplan only and go through custom service- time consuming inconvenient. Scholarship offering to Myanmar students, not yet come (visa procedure and student selection for scholarship –certificate and diploma	Yes. MoU with Indonesia technic collage. SMKN1. Sidoarjo . Student and teacher exchange for cost estimation subject (Unit of construction-computer). Using the EDMO module-distance learning module, then spend two- weeks to one month in Indonesia. Free accommodation, but paid for air tickets same when Indonesian student/teacher come to Thailand. Budget is from the OVEC.

	Institution 10	Institution 11	Institution 12
<b>Name</b>	Mr. Phang Seyha	Mr. Panyachart Wongpanya	
<b>Position</b>	Civil Engineering (Teacher)	Deputy Director	
<b>Roles and Responsibilities</b>			
<b>Name of Institute</b>	Kampongthomchheuteat High School	Chiang Mai Technical Collage	
<b>City</b>	Kampongthom, Cambodia	Chiang Mai Province, Thailand	
<b>Courses offered</b>	3 years Certificate	3 years certificate 2 years diploma	
<b>Certification level</b>	Certificate		

<b>(Diploma, certificate)</b>			
<b>Specialization and or achievements in programmes</b>	Electricity and electronic, architecture, animal science	Construction and Engineering	
<b>Experience in teacher and student exchange</b>	No		

**a) Experiences in conducting teacher/student exchanges (List down the name of institutions)**

1. Bandung State Polytechnic, Indonesia.
2. National Polytechnic Institute of Cambodia
3. Regional Polytechnic Institute Techo Sen Takao of Cambodia
4. Savannakhet Technical Vocational School
5. Phuket Technical Collage
6. Dusit Technical Collage

**b). Other concerns**

None, but reported the sources of funding such as TICA-funding source, ADB (Asian development Bank)

**JOINT ACTION PLAN**

<b>No.</b>	<b>Agreed Joint Activities</b>	<b>Partners (Name of Institutions)</b>	<b>Targeted participants of this activities (management, teachers, students, staff, researchers, etc)</b>	<b>Number of targeted participants</b>	<b>When to do</b>
1	<ol style="list-style-type: none"> <li>1. High Official Study visit to learn and understand each other system</li> <li>2. Teacher Visits to know and learn at program level; curriculum mapping; Development student/teacher exchange programs</li> </ol>	<ul style="list-style-type: none"> <li>• Chiang Mai Technical Collage</li> <li>• National Polytechnic Institute of Cambodia</li> <li>• Regional Polytechnic Institute Techo Sen Takeo</li> </ul>	<ol style="list-style-type: none"> <li>1. Management team</li> <li>2. Teachers</li> </ol>	Study visit s(15 per group)	Mid- year of 2016

	<p>Level: Certificate and diploma</p> <p>Area of Specialization: General Construction and Engineering ..</p>				
2	<p>1. High Official Study visit to learn and understand each other system</p> <p>2. Teacher Visits to know and learn at program level; curriculum mapping; Development student/teacher exchange programs</p> <p>Level: Certificate and diploma..</p> <p>Area of Specialization: General Construction and engineering</p>	<ul style="list-style-type: none"> <li>Phuket Technical Collage</li> <li>National Polytechnic Institute of Cambodia</li> <li>Regional Polytechnic Institute Techo Sen Takeo of Cambodia</li> </ul>	<p>1. Management team</p> <p>2. Teachers</p>	Study visits (10-15 persons)	Mid-year of 2016
3	<p>1. High Official Study Visit</p> <p>Level: Diploma..</p> <p>Area of Specialization: Education; Research; Community Services; Management Improvement; Others.</p> <p>.....</p>	<ul style="list-style-type: none"> <li>Dusit Technical Collage</li> <li>Bandung State Polytechnic of Indonesia</li> </ul>			
4		<ul style="list-style-type: none"> <li>Chiang Rai Technical collage</li> <li>Bandung State Polytechnic</li> </ul>			
4	1. High Official Study	<ul style="list-style-type: none"> <li>Nongkai Technical</li> </ul>	Management teachers	5-10 people	Cambodia: June-July

	<p>visit to learn and understand each other system</p> <p>2. Teacher Visits to know and learn at program level; curriculum mapping; Development student/teacher exchange programs</p> <p>Level: Certificate, Diploma.....</p> <p>Area of Specialization: Nongkai (Construction in general) Udonthani (Construction in general) Cambodia (Electronic, Electricity, <b>construction</b>, Mechanic, Air conditioning, Automotive , information technology, industrial technology) Lao (road and bridge construction, survey, architecture, carpentry)</p>	<p>Collage</p> <ul style="list-style-type: none"> <li>• Udonthani Technical Collage</li> <li>• National Polytechnic Institute of Cambodia</li> <li>• Regional Polytechnic Institute Techo Sen Takeo of Cambodia</li> <li>• Savannaket Technical Vocational School)</li> </ul>	<p>(Management level first and then lecturers. Discuss first visit then discuss more the next steps. The last step will be students exchange)</p>		<p>2016</p> <p>Udon/NongKai: 2016-October</p> <p>Lao: July-August, 2016</p>

#### 1. Other concerns/issues

- Timeline not be as planned
- Mechanisms of Support-TVET consortium, Follow up the joint action plans-sending invitation letter, social medias to conduct the joint activities



## 1. TEACHER EXCHANGE MODEL

Details	Sub-group I	Sub-group II	Sub-group III
<b>Proposed by</b>	<ul style="list-style-type: none"> <li>Bandung State Polytechnic and</li> <li>Dusit Technical Collage</li> </ul>	<ul style="list-style-type: none"> <li>Nongkai Technical Collage</li> <li>Udonthani Technical Collage</li> <li>National Polytechnic Institute of Cambodia</li> <li>Regional Polytechnic Institute Techo Sen Takeo of Cambodia</li> <li>Savannaket Technical Vocational School)</li> <li>Phuket Technical Collage</li> <li>Chiang Mai Technical Collage</li> </ul>	
<b>Teacher profile (course/subject, level)</b>	Diploma (Civil engineering)	Diploma	
<b>Teacher requirements</b>	Minimum-master degree on civil engineering and has 5-10 years' experience in the field	At least Diploma and bachelor with 5 years' experience of teaching in this subject. Understand and communicate in English. Have a teacher certificate. Government Officer.	
<b>Number of participated teacher</b>	2 or more	2 or more	
<b>Teacher program (Teaching observation/teaching in classroom, train in the industry/other please mention.....)</b>	Joint research and curriculum mapping	Teaching in class room-Thai Train in the industry (Lao)	

<b>Duration</b>	4 months (2 +2 )	2 weeks	
<b>Start from ...until...</b>	2016, specific date and month to be decided	April1 (To be decided), 2016	
<b>Who will be responsible for each expense</b>  <b>- Airfare</b>  <b>- Visa and the consequences</b>  <b>- Insurance (if any)</b>  <b>- Accommodation</b>  <b>- Local transportation</b>  <b>- Other living expense</b>  <b>- Salary</b>  <b>- Others such as....</b>	Each party	Each party for the time being Free accommodation (Thailand and Cambodia)	

**What we have to do together to prepare teacher exchange program?**

1. Sending letter or email
2. Site visiting and debriefing of the plan and activities
3. Sending the selected teachers according to the academic period in each country.

**Other concerns/inputs to implement teacher exchange?**

Communication gaps in organization of the teacher exchange and Visa condition (tied to national visa regulations. Min. 30 days visa

## 2. STUDENT EXCHANGE MODEL

Details	Sub-group I	Sub-group II	Sub-group III
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<b>Proposed by (name of institution)</b>	Dusit Technical College		
<b>Student profile (age, education level, course/subject)</b>	Certificate level		
<b>Student requirements</b>	TOEIC score training / English language requirement (Min 500 for teacher and 300 for student)		
<b>Number of participated student</b>	Due to the limited budget, only one teacher and one student selected.		
<b>Student program (sit-in classroom/on job training/other please mention.....)</b>			
<b>Duration</b>	2 weeks		
<b>Start from ...until...</b>  - how long for study at host institutions(sit in classroom program)?  - how long for industrial attachments?	Internship and industrial attachments		
<b>Who will be responsible for each expense</b>  - Airfare	Host country will be responsible for all expenses excluding airfare		

<ul style="list-style-type: none"> <li>- Visa and the consequences</li> <li>- Insurance (if any)</li> <li>- Accommodation</li> <li>- Local transportation</li> <li>- Other living expense</li> <li>- Tuition fee</li> <li>- Others such as....</li> </ul>			
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**What we have to do together to prepare student exchange program?**

Invite letter to vocational colleges in the country  
 Sign MoU with Indonesia (SMK N1)  
 Select subject and responsible person  
 Conduct teacher materials

**Other concerns/inputs to implement student exchange?**

The concern of this model is the lack of budget for accommodating exchange students from partner country, Indonesia