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資料 1. 調査団員・氏名

1. 調査団員・氏名

概略設計 (D/D I) インセプションレポート現地説明・協議：

2012年2月22日(水)～2012年2月29日(水)(8日間)

氏名	担当	所属
米田 一弘	団長	国際協力機構 (JICA) タイ事務所 所長
松元 秀亮	協力計画	国際協力機構 (JICA) 地球環境部 水資源・防災グループ 防災第一課 主任調査役
松本 良治	業務主任	(株)建設技研インターナショナル
三品 孝洋	副業務主任 (コンポーネント2)	(株)建設技研インターナショナル
三浦 実	道路計画	(株)建設技研インターナショナル
渡邊 亮平	道路設計Ⅱ	(株)建設技研インターナショナル
シュレスタ・ ロビンソン	道路設計Ⅲ	(株)建設技研インターナショナル
ロン・ チャンター	付帯構造物設計	(株)建設技研インターナショナル
石塚 一啓	測量調査	(株)建設技研インターナショナル (補強：国際航業株式会社)
幡野 貴之	環境社会配慮	(株)建設技研インターナショナル

概略設計 (D/D I) プログレスレポート現地説明・協議

2012年5月27日(日)～2012年6月1日(金) (6日間)

氏名	担当	所属
米田 一弘	団長	国際協力機構 (JICA) タイ事務所 所長
松元 秀亮	協力計画	国際協力機構 (JICA) 地球環境部 水資源・防災グループ 防災第一課 主任調査役
三品 孝洋	業務主任	㈱建設技研インターナショナル
石井 昌樹	副業務主任 (コンポーネント2)	㈱建設技研インターナショナル
三浦 実	道路計画	㈱建設技研インターナショナル
相良 秀孝	道路設計 I	㈱建設技研インターナショナル
須之内 典明	道路施設設計Ⅲ	㈱建設技研インターナショナル
シュレスタ・ ロビンソン	道路施設設計Ⅲ	㈱建設技研インターナショナル
清谷 啓介	道路施設設計Ⅳ	㈱建設技研インターナショナル
劉 自強	道路排水設計	㈱建設技研インターナショナル
緒方 博充	施工・調達計画/積算	㈱建設技研インターナショナル
清田 大作	環境社会配慮	㈱建設技研インターナショナル

概略設計 (D/D I) ファイナルレポート現地説明・協議

2012年8月26日(日)～2012年8月30日(木) (5日間)

氏名	担当	所属
山内 邦裕	団長	国際協力機構 (JICA) 地球環境部 次長 (計画・調整担当)
松元 秀亮	協力計画	国際協力機構 (JICA) 地球環境部 水資源・防災グループ 防災第一課 主任調査役
三品 孝洋	業務主任	(株)建設技研インターナショナル
石井 昌樹	副業務主任 (コンポーネント 2)	(株)建設技研インターナショナル
三浦 実	道路計画	(株)建設技研インターナショナル
相良 秀孝	道路設計 I	(株)建設技研インターナショナル
渡邊 亮平	道路設計 II	(株)建設技研インターナショナル
小川 淳一郎	道路設計 IV	(株)建設技研インターナショナル

資料 2. 調査行程

2. 調査行程 東部外環状道路(国道9号線)改修計画

年	月日	実施項目	松元 秀亮	三品 孝洋	三浦 実	相良 秀孝	渡邊 亮平	須之内 典明	シュルスタ・ロビンソン	清谷 啓介	小川 淳一郎	中島 隆志	劉 自強	ロン・チャンター	緒方 博克	
			JICA	(副業務主任(2)(コンボ-ネット2&3)/河川施設設計)	事業実施計画(無償)/コンボ-ネットリーダー(2)	施設設計(無償)(4) → 道路施設設計 I	施設設計(無償)(4) → 道路施設設計 II	施設設計(無償)(8-1) → 道路施設設計 III-1	施設設計(無償)(8-2) → 道路施設設計 III-2	施設設計(無償)(9) → 道路施設設計 IV-1	施設設計(無償)(9-1) → 道路施設設計 IV-2	施設設計(無償)(9-2) → 道路排水設計-1	施設設計(無償)(10-1) → 道路排水設計-1	施設設計(無償)(10-2) → 道路排水設計-2	施設設計(無償)(11) → 道路付帯構造物設計	施設設計(無償)(11) → 道路付帯構造物設計
2012年2月	1	Wed														
	2	Thu														
	3	Fri														
	4	Sat														
	5	Sun														
	6	Mon														
	7	Tue														
	8	Wed														
	9	Thu														
	10	Fri								移動 TG641					移動 TG641	
	11	Sat								現地調査					現地調査	
	12	Sun								現地調査					現地調査	
	13	Mon								現地調査					現地調査	
	14	Tue								現地調査					現地調査	
	15	Wed								データ整理					データ整理	
	16	Thu								データ整理					データ整理	
	17	Fri								データ整理					データ整理	
	18	Sat								現地調査					現地調査	
	19	Sun								現地調査					現地調査	
	20	Mon								現地調査					現地調査	
	21	Tue							移動 JL707	現地調査					現地調査	
	22	Wed	ICR説明	移動 ICR説明	移動 JL717				ICR説明	ICR説明					ICR説明	
	23	Thu	(RID協議)	(RID協議)	(RID協議)				現地調査	現地調査					現地調査	
	24	Fri	M/D署名	M/D署名	M/D署名	移動 JL717			M/D署名	M/D署名					M/D署名	
	25	Sat	JICA現地視察	JICA現地視察	JICA現地視察	JICA現地視察			現地調査	現地調査					現地調査	
	26	Sun	JICA現地視察	JICA現地視察	JICA現地視察	JICA現地視察			現地調査	現地調査					現地調査	
	27	Mon	(JICA団内打合せ)	(JICA団内打合せ)	(JICA団内打合せ)	(JICA団内打合せ)			現地調査	現地調査					現地調査	
	28	Tue	(JICA TICA協議)	(JICA TICA協議)	(JICA TICA協議)	(JICA TICA協議)			協議資料作成	協議資料作成	移動 TG676				協議資料作成	
	29	Wed	JICA 大使館報告	JICA 大使館報告	JICA 大使館報告	JICA 大使館報告			協議資料作成	協議資料作成					協議資料作成	
2012年3月	1	Thu	移動	打合せ	現地調査			現地調査						現地調査	移動 TG643	
	2	Fri		打合せ	現地調査			現地調査						現地調査	現地調査	
	3	Sat		打合せ	協議資料作成			協議資料作成						協議資料作成	協議資料作成	
	4	Sun		打合せ	協議資料作成			協議資料作成						データ整理	協議資料作成	
	5	Mon	道路局協議	打合せ	道路局協議			道路局協議						道路局協議	道路局協議	
	6	Tue		打合せ	協議資料作成			現地調査						協議資料作成	協議資料作成	
	7	Wed		打合せ	協議資料作成			協議資料作成						協議資料作成	協議資料作成	
	8	Thu	道路局協議	打合せ	道路局協議			道路局協議						協議資料作成	協議資料作成	
	9	Fri		打合せ	現地再委託協議			移動 JL034						移動 TG676	現地調査	
	10	Sat		打合せ	協議資料作成			移動 JL034							現地調査	
	11	Sun		打合せ	協議資料作成										現地調査	
	12	Mon		打合せ	現地再委託協議										現地調査	
	13	Tue	現地再委託契約締結	打合せ	現地再委託契約締結										現地調査	
	14	Wed		打合せ	協議資料作成			移動 JL717			移動 JL717				現地調査	
	15	Thu	地質調査箇所DOH立会い	打合せ	地質調査箇所DOH立会い	地質調査箇所DOH立会い			地質調査箇所DOH立会い		地質調査箇所DOH立会い				地質調査箇所DOH立会い	
	16	Fri		打合せ	協議資料作成			現地調査			現地調査				現地調査	
	17	Sat		打合せ	協議資料作成			現地調査			現地調査				現地調査	
	18	Sun		打合せ	協議資料作成			現地調査			現地調査				現地調査	
	19	Mon		打合せ	協議書類作成			協議書類作成			協議書類作成				協議書類作成	
	20	Tue	道路局協議	打合せ	道路局協議			道路局協議			道路局協議				道路局協議	
	21	Wed		打合せ	協議資料作成			現地調査			現地調査				現地調査	
	22	Thu		打合せ	協議資料作成			現地調査			現地調査				現地調査	
	23	Fri		打合せ	協議資料作成			現地調査			現地調査				現地調査	
	24	Sat		移動 JL718	協議資料作成			現地調査			現地調査		移動 TG641		現地調査	現地業者協議
	25	Sun		移動 JL718	協議資料作成			現地調査			現地調査		現地調査		協議資料整理	
	26	Mon			協議資料作成			協議資料作成			協議資料作成		協議資料作成		協議資料作成	
	27	Tue			協議資料作成			協議資料作成			協議資料作成		協議資料作成		協議資料作成	
	28	Wed	道路局テクニカルノート協議		道路局テクニカルノート協議			道路局テクニカルノート協議			道路局テクニカルノート協議		道路局テクニカルノート協議		道路局テクニカルノート協議	
	29	Thu	道路局テクニカルノート協議		道路局テクニカルノート協議			道路局テクニカルノート協議			道路局テクニカルノート協議		道路局テクニカルノート協議		道路局テクニカルノート協議	
	30	Fri			移動 JL718			現地調査			現地調査		現地調査		現地調査	移動 TG640
	31	Sat			協議資料作成			協議資料作成			協議資料作成		協議資料作成		協議資料作成	移動 TG640

2. 調査行程 東部外環状道路(国道9号線)改修計画

年	月日	実施項目	松元 秀亮 JICA	三品 孝洋 (副業務主任(2)(コンポー ネント2&3)/河川施設計 画)	三浦 実 事業実施計画(無償)/コ ンポーネントリーダー(2)	相良 秀孝 施設設計(無償)(4) → 道路施設設計 I	渡邊 亮平 施設設計(無償)(4) → 道路施設設計 II	須之内 典明 施設設計(無償)(8-1) → 道路施設設計 III-1	シュレスタ・ロビンソン 施設設計(無償)(5) → 道路施設設計 III-2	清谷 啓介 資機材調達計画(無償) 施設設計(無償)(9-1) → 道路施設設計 IV-1	小川 淳一郎 施設設計(無償)(9-2) → 道路施設設計 IV-2	中島 隆志 施設設計(無償)(10-1) → 道路排水設計-1	劉 自強 施設設計(無償)(10-2) → 道路排水設計-2	ロン・チャーター 施設設計(無償)(6) 施設設計(無償)(11) → 道路付帯構造物設計	緒方 博克 施工計画積算(無償)(2- 1) → 道路施設積算-1		
2012年4月	1 Sun					協議資料作成				協議資料作成		協議資料作成		移動 TG661			
	2 Mon					協議資料作成				協議資料作成		協議資料作成		移動 TG661			
	3 Tue	道路局テクニカルノート協議				道路局テクニカルノート協議				道路局テクニカルノート協議		道路局テクニカルノート協議		道路局テクニカルノート協議			
	4 Wed					現地調査				現地調査		現地調査		現地調査			
	5 Thu					現地調査				現地調査		現地調査		現地調査			
	6 Fri					現地調査				現地調査		データ整理		データ整理			
	7 Sat					現地調査				現地調査		データ整理		データ整理			
	8 Sun					協議資料作成				協議資料作成		協議資料作成		協議資料作成			
	9 Mon					協議資料作成				協議資料作成		協議資料作成		協議資料作成			
	10 Tue					協議資料作成				協議資料作成		協議資料作成		協議資料作成			
	11 Wed	道路局テクニカルノート協議				道路局テクニカルノート協議				道路局テクニカルノート協議		道路局テクニカルノート協議		道路局テクニカルノート協議		移動 JL717	
	12 Thu					現地調査				現地調査		移動 TG676		現地調査		現地調査	
	13 Fri					現地調査				現地調査				データ整理		現地調査	
	14 Sat					協議資料作成				現地調査				データ整理		資料整理	
	15 Sun					協議資料作成				現地調査				移動 TG642		資料整理	
	16 Mon					移動 JL717	現地再委託協議	移動 JL717		移動 JL717	現地再委託協議			移動 JL717		移動 TG642	現地調査
	17 Tue					協議資料作成	現地再委託協議	現地再委託協議		現地再委託協議	現地再委託協議			現地調査		現地調査	
	18 Wed	現地再委託契約締結				協議資料作成	現地再委託契約締結	現地再委託契約締結		現地再委託協議	現地再委託契約締結			現地調査		現地業者協議	
	19 Thu					協議資料作成	移動 JL708	協議資料作成		協議資料作成	移動 JL708			資料整理		現地業者協議	
	20 Fri	道路局テクニカルノート協議				道路局テクニカルノート協議		道路局テクニカルノート協議		道路局テクニカルノート協議			道路局テクニカルノート協議	道路局テクニカルノート協議		道路局テクニカルノート協議	
	21 Sat					現地調査		データ整理						現地調査		資料整理	
	22 Sun					協議資料作成		協議資料作成		協議資料作成				協議資料作成		協議資料作成	
	23 Mon					協議資料作成		協議資料作成		協議資料作成				協議資料作成		協議資料作成	
	24 Tue	道路局テクニカルノート協議				移動 JL717	道路局テクニカルノート協議	道路局テクニカルノート協議		道路局テクニカルノート協議			道路局テクニカルノート協議	道路局テクニカルノート協議		道路局テクニカルノート協議	
	25 Wed					打合せ	協議資料作成	移動 JL5037	協議資料作成	協議資料作成				協議資料作成		協議資料作成	
	26 Thu	道路局テクニカルノート協議				打合せ	道路局テクニカルノート協議	道路局テクニカルノート協議		道路局テクニカルノート協議				道路局テクニカルノート協議		道路局テクニカルノート協議	
	27 Fri					打合せ	協議資料作成	現地再委託協議	現地再委託協議	現地再委託協議				データ整理		現地業者協議	
	28 Sat					打合せ	協議資料作成	現地調査	データ整理	データ整理				データ整理		現地業者協議	
	29 Sun					打合せ	協議資料作成	現地調査	現地再委託協議	データ整理				データ整理		現地業者協議	
	30 Mon					打合せ	現地再委託協議	現地再委託協議	現地再委託協議	現地再委託協議				データ整理		移動 JL708	
2012年5月	1 Tue	現地再委託契約締結			打合せ	現地再委託契約締結	現地再委託契約締結	現地再委託契約締結	現地再委託契約締結	移動 JL717			データ整理		JL717		
	2 Wed				打合せ	協議資料作成	協議資料作成	協議資料作成	協議資料作成	協議資料作成			協議資料作成		協議資料作成		
	3 Thu	道路局協議			打合せ	移動 JL718	道路局協議	移動 JL718	道路局協議	道路局協議			道路局協議		道路局協議		
	4 Fri				打合せ	移動 JL718	協議資料作成	移動 JL718	データ整理	現地調査			現地調査		現地調査		
	5 Sat				打合せ	協議資料作成	協議資料作成	協議資料作成	協議資料作成	協議資料作成			協議資料作成		協議資料作成		
	6 Sun				打合せ	協議資料作成	協議資料作成	協議資料作成	協議資料作成	協議資料作成			協議資料作成		協議資料作成		
	7 Mon				打合せ		協議資料作成		協議資料作成	協議資料作成			協議資料作成		協議資料作成		
	8 Tue				打合せ	協議資料作成	協議資料作成		協議資料作成	協議資料作成			協議資料作成		協議資料作成		
	9 Wed	道路局協議				打合せ	道路局協議		移動 JL717	道路局協議			道路局協議		道路局協議		
	10 Thu	道路局協議				打合せ	道路局協議		報告書作成	道路局協議			道路局協議		道路局協議		
	11 Fri					打合せ	報告書作成		報告書作成	報告書作成			報告書作成		報告書作成		
	12 Sat					打合せ	報告書作成		報告書作成	報告書作成			報告書作成		報告書作成		
	13 Sun					打合せ	協議資料作成	協議資料作成	協議資料作成	協議資料作成			協議資料作成		協議資料作成		
	14 Mon					打合せ	協議資料作成	協議資料作成	協議資料作成	協議資料作成			協議資料作成		協議資料作成		
	15 Tue	テクニカルノート説明				打合せ	テクニカルノート説明		テクニカルノート説明	テクニカルノート説明	テクニカルノート説明			テクニカルノート説明		テクニカルノート説明	
	16 Wed					移動 JL718	報告書作成		報告書作成	報告書作成	報告書作成			報告書作成		報告書作成	
	17 Thu					移動 JL718	協議資料作成	協議資料作成	協議資料作成	協議資料作成	協議資料作成			協議資料作成		協議資料作成	
	18 Fri	道路局協議					道路局協議	道路局協議	道路局協議	道路局協議			道路局協議		道路局協議		
	19 Sat						報告書作成		報告書作成	報告書作成			報告書作成		報告書作成		
	20 Sun						報告書作成		報告書作成	報告書作成			報告書作成		報告書作成		
	21 Mon						報告書作成		報告書作成	報告書作成			報告書作成		報告書作成		
22 Tue	(国内)派遣前会議					報告書作成		報告書作成	報告書作成			報告書作成		報告書作成			
23 Wed						移動 JL717	協議資料作成		協議資料作成	協議資料作成			協議資料作成		報告書作成	現地業者協議	
24 Thu						移動 JL717	報告書作成	協議資料作成	協議資料作成	協議資料作成			協議資料作成		報告書作成	現地業者協議	
25 Fri	道路局協議					打合せ	道路局協議	道路局協議	道路局協議			道路局協議		JL708	道路局協議		
26 Sat						打合せ	報告書作成	報告書作成	報告書作成			報告書作成			現地調査		
27 Sun						移動 TG677 (RID打合せ) PR協議	報告書作成	報告書作成	報告書作成			報告書作成			現地調査		
28 Mon	PR協議					(RID打合せ) PR協議	PR説明	PR説明	PR説明			PR説明			PR説明		
29 Tue						(RID打合せ) (RID打合せ) (TICA打合せ)	報告書作成	報告書作成	報告書作成						現地調査		
30 Wed						M/M署名 移動 TG642	報告書作成	報告書作成	報告書作成	報告書作成			報告書作成		移動 TG676		
31 Thu	M/M署名					M/M署名 移動 JL718	移動 JL718		移動 JL708	移動 JL708	移動 JL708		移動 JL708				

2. 調査行程 東部外環状道路(国道9号線)改修計画

年	月日	実施項目	松元 秀亮	三品 孝洋	三浦 実	相良 秀孝	渡邊 亮平	須之内 典明	シュレスター・ロビンソン	清谷 啓介	小川 淳一郎	中島 隆志	劉 自強	ロン・チャンター	緒方 博充
			JICA	(副業務主任(2)(コンポーネント2&3)/河川施設計画)	事業実施計画(無償)/コンポーネントリーダー(2)	施設設計無償(6) → 道路施設設計 I	施設設計無償(4) 施設設計無償(7) → 道路施設設計 II	施設設計(無償)(8-1) 施設設計(無償)(8-2) → 道路施設設計 III-1	施設設計(無償)(5) 施設設計(無償)(8-2) → 道路施設設計 III-2	資機材調達計画(無償) 施設設計(無償)(9-1) → 道路施設設計 IV-1	施設設計(無償)(9-2) 施設設計(無償)(9-1) → 道路施設設計 IV-2	施設設計(無償)(10-1) → 道路排水設計-1	施設設計(無償)(10-2) → 道路排水設計-2	施設設計(無償)(11) 施設設計(無償)(11) → 道路付帯構造物設計	施工計画積算(無償)(2-1) → 道路施設積算-1
2012年6月	1	Fri	移動 TG842	打合せ	移動 JL718	-	-	-	-	-	-	-	-	-	-
	2	Sat	-	移動 JL718	-	-	-	-	-	-	-	-	-	-	-
	3	Sun	-	-	-	-	-	-	-	-	-	-	-	-	-
	4	Mon	-	-	-	-	-	-	-	-	-	-	-	-	-
	5	Tue	-	-	-	-	-	-	-	-	-	-	-	-	-
	6	Wed	-	-	-	-	-	-	-	-	-	-	-	-	-
	7	Thu	-	-	-	-	-	-	-	-	-	-	-	-	-
	8	Fri	-	-	-	-	-	-	-	-	-	-	-	-	-
	9	Sat	-	-	-	-	-	-	-	-	-	-	-	-	-
	10	Sun	-	-	-	-	-	-	-	-	-	-	-	-	-
	11	Mon	-	-	-	-	-	-	-	-	-	-	-	-	-
	12	Tue	-	-	-	-	-	-	-	-	-	-	-	-	-
	13	Wed	-	-	-	-	-	-	-	-	-	-	-	-	-
	14	Thu	-	移動 JL717	-	-	-	-	-	-	-	-	-	-	-
	15	Fri	-	打合せ	-	-	-	-	-	-	-	-	-	-	-
	16	Sat	-	打合せ	-	-	-	-	-	-	-	-	-	-	-
	17	Sun	-	打合せ	-	-	-	-	-	-	-	-	-	-	-
	18	Mon	-	打合せ	-	-	-	-	-	-	-	-	-	-	-
	19	Tue	-	打合せ	-	-	-	-	-	-	-	-	-	-	-
	20	Wed	-	打合せ	-	-	-	-	-	-	-	-	-	-	-
	21	Thu	-	打合せ	-	-	-	-	-	-	-	-	-	-	-
	22	Fri	-	打合せ	-	-	-	-	-	-	-	-	-	-	-
	23	Sat	-	打合せ	-	-	-	-	-	-	-	-	-	-	-
	24	Sun	-	打合せ	-	-	-	-	-	-	-	-	-	-	-
	25	Mon	-	打合せ	-	-	-	-	-	-	-	-	-	-	-
	26	Tue	-	打合せ	-	-	-	-	-	-	-	-	-	-	-
	27	Wed	-	打合せ	-	-	-	-	-	-	-	-	-	-	-
	28	Thu	-	打合せ	-	-	-	-	-	-	-	-	-	-	-
	29	Fri	-	打合せ	-	-	-	-	-	-	-	-	-	-	-
	30	Sat	-	打合せ	-	-	-	-	-	-	-	-	-	-	-
2012年7月	1	Sun	-	打合せ	-	-	-	-	-	-	-	-	-	-	-
	2	Mon	-	打合せ	移動 JL717	移動 JL717	移動 JL717	移動 JL717	-	-	-	-	-	-	-
	3	Tue	道路局協議	打合せ	道路局協議	道路局協議	道路局協議	道路局協議	-	-	-	-	-	-	-
	4	Wed	-	打合せ	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	-	-	-	-	-	-	-
	5	Thu	E/N署名	打合せ	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	移動 JL717	-	移動 TG841	-	-	-	-
	6	Fri	道路局協議	打合せ	道路局協議	道路局協議	道路局協議	道路局協議	-	-	-	-	-	-	-
	7	Sat	-	打合せ	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	-	-	-	-	-	-
	8	Sun	-	打合せ	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	-	-	-	-	-	-
	9	Mon	-	打合せ	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	-	-	-	-	-	-
	10	Tue	道路局協議	打合せ	道路局協議	道路局協議	道路局協議	道路局協議	道路局協議	-	-	-	-	-	-
	11	Wed	-	打合せ	協議資料・報告書作成	協議資料・報告書作成	現地企業協議	現地企業協議	現地企業協議	-	-	現地調査	-	-	-
	12	Thu	-	打合せ	協議資料・報告書作成	協議資料・報告書作成	現地企業協議	現地企業協議	現地企業協議	-	-	現地調査	-	-	-
	13	Fri	-	打合せ	協議資料・報告書作成	現地調査	現地調査	現地調査	現地調査	-	-	現地調査	-	-	-
	14	Sat	-	打合せ	協議資料・報告書作成	データ整理	データ整理	データ整理	データ整理	-	-	データ整理	-	-	-
	15	Sun	-	打合せ	移動 JL718	協議資料・報告書作成	移動 JL718	データ整理	データ整理	-	-	データ整理	-	-	-
	16	Mon	-	打合せ	移動 JL718	協議資料・報告書作成	移動 JL718	データ整理	データ整理	-	-	データ整理	-	-	-
	17	Tue	-	打合せ	現地調査	現地調査	現地調査	現地調査	報告書作成	-	-	協議資料・報告書作成	-	-	-
	18	Wed	-	打合せ	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	報告書作成	-	-	協議資料・報告書作成	-	-	-
	19	Thu	-	打合せ	協議資料・報告書作成	協議資料・報告書作成	-	-	移動 JL708	-	-	協議資料・報告書作成	-	-	-
	20	Fri	道路局協議	打合せ	道路局協議	道路局協議	道路局協議	道路局協議	-	-	-	道路局協議	-	-	-
	21	Sat	-	打合せ	現地調査	現地調査	現地調査	現地調査	-	-	-	現地調査	-	-	-
	22	Sun	-	打合せ	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	-	-	-	協議資料・報告書作成	-	-	-
	23	Mon	-	打合せ	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	-	-	-	協議資料・報告書作成	-	-	-
	24	Tue	道路局協議	打合せ	道路局協議	道路局協議	道路局協議	道路局協議	-	-	-	道路局協議	-	-	-
	25	Wed	-	打合せ	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	-	-	-	協議資料・報告書作成	-	-	-
	26	Thu	G/A署名	打合せ	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	-	-	-	協議資料・報告書作成	-	-	-
	27	Fri	道路局協議	打合せ	道路局協議	道路局協議	道路局協議	道路局協議	-	-	-	道路局協議	-	-	-
	28	Sat	-	打合せ	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	-	-	-	協議資料・報告書作成	-	-	-
	29	Sun	-	打合せ	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	協議資料・報告書作成	-	-	-	協議資料・報告書作成	-	-	-
	30	Mon	道路局協議	打合せ	移動 JL718	移動 JL718	移動 JL718	移動 JL718	-	-	-	道路局協議	-	-	-
	31	Tue	-	打合せ	-	移動 JL718	移動 JL718	移動 JL718	-	-	-	報告書作成	-	-	-

2. 調査行程 東部外環状道路(国道9号線)改修計画

年	月日	実施項目	松元 秀亮	三品 孝洋	三浦 実	相良 秀孝	廣邊 亮平	須之内 典明	シュレストロピンソン	溝谷 啓介	小川 淳一郎	中島 隆志	劉 自強	ロン・チャンター	緒方 博光
			JICA	(副専務主任(2)(コンボ一ホ一ホ242)) / 河川施設計画)	事業実施計画(無償) / コンポーネントリーダー(2)	施設設計無償(6) → 道路施設設計 I	施設設計(無償)(4) 施設設計無償(7) → 道路施設設計 II	施設設計(無償)(5) 施設設計(無償)(8-2) → 道路施設設計 III-2	施設設計(無償)(8-1) → 道路施設設計 III-1	施設設計(無償)(5) 施設設計(無償)(8-2) → 道路施設設計 III-2	資機材調達計画(無償) 施設設計(無償)(9-1) → 道路施設設計 IV-1	施設設計(無償)(9-2) → 道路施設設計 IV-2	施設設計(無償)(10-1) → 道路排水設計-1	施設設計(無償)(10-2) → 道路排水設計-2	施設設計(無償)(10-2) → 道路排水設計-2
2012年8月	1 Wed			打合せ											
	2 Thu			打合せ											
	3 Fri			打合せ											
	4 Sat			打合せ											
	5 Sun			打合せ											
	6 Mon			打合せ											
	7 Tue			打合せ											
	8 Wed			打合せ											
	9 Thu			打合せ											
	10 Fri			打合せ											
	11 Sat			打合せ											
	12 Sun			打合せ											
	13 Mon			打合せ											
	14 Tue			打合せ											
	15 Wed			打合せ											
	16 Thu			打合せ			移動 JL717	移動 JL717							
	17 Fri			打合せ			道路局協議	道路局協議							
	18 Sat			打合せ			協議資料作成	協議資料作成							
	19 Sun			打合せ			協議資料作成	協議資料作成							
	20 Mon			打合せ			道路局協議	道路局協議							
	21 Tue			打合せ			道路局協議	道路局協議							
	22 Wed			打合せ			移動 JL717	移動 JL717							
	23 Thu			打合せ			道路局協議	道路局協議							
	24 Fri			打合せ			道路局協議	道路局協議							
	25 Sat			打合せ			協議資料作成	協議資料作成	移動 JL718						
	26 Sun			移動			協議資料作成	協議資料作成							
	27 Mon			(RID現場視察・協議)	(RID現場視察・協議)	(RID現場視察・協議)	道路局協議	道路局協議							
	28 Tue			道路局現場視察・協議	道路局現場視察・協議	道路局現場視察・協議	道路局現場視察・協議	道路局現場視察・協議							
	29 Wed			M/D署名(RID/DOH) 大使館報告	M/D署名(RID/DOH) 大使館報告	M/D署名(RID/DOH) 大使館報告	M/D署名(RID/DOH) 大使館報告	M/D署名(RID/DOH) 大使館報告							
	30 Thu			移動			報告書作成	報告書作成	移動 JL718						
	31 Fri						移動 JL718	移動 JL718							

移動
タイ国/バンコク

JICA - JAPAN INTERNATIONAL COOPERATION AGENCY
E/N Exchange of Note
G/A Grant Agreement
ICR Inception Report
PR Progress Report

往路旅程	
JL707	成田 → バンコク 18:00 - 22:40 6h40m
JL717	成田 → バンコク 11:00 - 15:40 6h40m
JL5037	福岡 → バンコク 11:35 - 14:55 5h20m
TG641	成田 → バンコク 11:00 - 15:30 6h30m
TG643	成田 → バンコク 12:00 - 18:30 6h30m
TG661	羽田 → バンコク 24:20 - 4:30 6h50m

復路旅程	
JL708	バンコク → 成田 8:10 - 16:25 6h15m
JL034	バンコク → 羽田 21:40 - 6:00 6h20m
JL718	バンコク → 成田 23:10 - 7:25 6h15m
TG640	バンコク → 成田 22:10 - 6:20 6h10m
TG642	バンコク → 成田 23:50 - 8:10 6h20m
TG676	バンコク → 成田 7:35 - 15:45 6h10m

資料 3. 関係者(面会者)リスト

3. 主要面談者リスト

在タイ王国日本国大使館 (Embassy of Japan in Thailand)

大鷹 正人	経済部公使
石本 毅	一等書記官
林 良太郎	二等書記官

JICA タイ事務所 (JICA Thailand office)

米田一弘	所長
川端 智之	次長
谷口 肇	所員
宮原 藍	所員
宮下 陽二郎	企画調査員
Ms. Katharine Maneethapodi	Senior Program Officer

Strategic Committee for Water Resources management (SCWRM:水資源管理戦略委員会)

竹谷 公男	アドバイザー (JICA 客員専門員)
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ロジャナ工業団地株式会社 (ROJANA INDUSTRIAL PARK PUBLIC Co.,LTD.)

林 邦亮

運輸省道路局 (Department of Highways)

Mr. Chusak Gaywee	Deputy Director General
-------------------	-------------------------

道路局都市間高速道路専門部 (Inter-City Motorway Division)

Mr. Sittichai Boonsaat	Director of Inter-City Motorway Division
Mr. Aditt Thongkun	Secretary of Inter-City Motorway Division
Mr. Suvichan Surabal	Senior Civil Engineer
Mr. Somnuk Wangamornmit	Civil Engineer
Dr. Thanasak Wongtanakitemaroon	Civil Engineer
Dr. Niphan Yaiaboon	Civil Engineer
Mr. Rung Buayaoraksa	Civil Engineer
Ms. Kavalin Wangsiripaisal	Civil Engineer

道路局都市間高速道路維持管理部 (Inter-City Motorway Maintenance District)

Mr. Yongyos Vonnapradite Director of Inter-City Motorway Maintenance District

道路局材料試験・検査部 (Bureau of Material Analysis and Inspection)

Dr. Montri Dechasakulsom Director Bureau of Material Analysis and Inspection

Mr. Boonkua Janbanjong Director of Analysis Group

Ms. Jeerikun Boonkhum Director of Pavement Design Group

Dr. Poranic Jitareekul Civil Engineer

Mr. Piyapong Jiwatanakulpaosarn Civil Engineer

道路局国際道路協力部 (Bureau of International Highways Cooperation)

Dr. Chayatan Phromsorn Director of Bureau of International Highways Cooperation

Ms. Manlika Nuankerd Director of Foreign Relations Group

Dr. Punya Chupanit Director of Management Group in Bureau of International Highways Cooperation

Mr. Natthasak Ariyapurk Senior Civil Engineer

Mr. Thanapon Wirojarust Civil Engineer

Mr. Parin Mruetneatorn Civil Engineer

Ms. Kamonporn Sutthisuksri Foreign Relations Officer

Ms. Sanirat Ketkaew Foreign Relations Officer

Ms. Win Trivitayanurak Foreign Relations Officer

国際道路協力部 マネジメントグループ

(Management Group in Bureau of International Highways Cooperation)

Dr. Punya Chupanit Director of Management Group in Bureau of International Highways Cooperation

道路局 調査・設計部 (Bureau of Location and Design)

Mr. Sombat Jaroenpat Director of Bureau of Location and Design

Mr. Anuparp Oharuensale Senior Civil Engineer

Mr. Pakorn Sripanwong Civil Engineer

道路局 企画・計画部 (Bureau of Planning)

Mr. Chusak Gaywee Director of Bureau of Planning

道路局 環境部 (Office of Environment and Public Involvement)

Mr. Surajit Thipayakesorn Director of Office of Environment and Public Involvement

Dr. Win Trivitayanurak Environmentalist

道路局国道建設部-2 (Bureau of Highway Construction 2)

Mr. Phaithun Khumvongdi Director of Bureau of Highway Construction 2

現地コントラクター (Local Contractor)

Vichitbhan Construction Co., Ltd.

Mr. Vivat Chavananand Officer in Business Development Department

Mr. Chalermpon Phetsawad Civil Engineer

SSV Construction Co., Ltd.

Mr. Jirachai Na Caiyo Vice President

Mr. Vichan Lerthirancharoen Civil Engineer

D.B.T. Engineering Co., Ltd.

Sarit jenyavanija Director

Mr. Decha Horsuwan Director

NTP Applicater Co., Ltd.

Mr. Kittirote Punasiri General Manager

Banchakij Co., Ltd.

Mr. Patarachai Banchawattana Director

Mr. Patcharin Banchawattana Manager

現地コンサルタント (Local Consulting Company)

Asian Engineering Consultants Co., Ltd.

Mr. Somchai Achavanuntakul Chairman

Dr. Sakda Santathadaporn Vice Chairman

Mr. Charoon Patai Executive Director and Manager

Geo-Technology Consultants Co., Ltd.

Mr. Krittanon Nilpanich Director and Sr. Manager Engineering

Mr. Suchart Suksa-ard Senior Field Work and Testing Manager

STS Engineering Consultants Co., Ltd.

Mr. Unnop Tiyajamorn Manager in Survey and Design Division

S.P.S Consulting Service Co., Ltd.

Ms. Sukon Khawgrib Senior Environmental Scientist

資料 4. 討議議事録(M/D, M/M)

a) インセプション・レポート現地説明・協議

MINUTES OF DISCUSSIONS
ON
THE PREPARATORY SURVEY
ON
THE REHABILITATION PROJECT
OF THE OUTER BANGKOK RING ROAD (EAST PORTION)
IN THE KINGDOM OF THAILAND

In response to a request from the Government of the Kingdom of Thailand (hereinafter referred to as "GOT"), the Government of Japan decided to conduct a Project for Comprehensive Flood Management Plan for the Chao Phraya River Basin (hereinafter referred to as "the umbrella Project") which consists of (i) Comprehensive flood management plan (Component 1), (ii) Outline design for Japanese Grant Aid (Component 2) and (iii) Pilot projects for emergency rehabilitation (Component 3). The Japan International Cooperation Agency (hereinafter referred to as "JICA") has started the umbrella Project since December 2011, and had series of discussions on the project selection of Component 2 among organization concerned. Finally, a project titled "The Rehabilitation Project of the Outer Bangkok Ring Road (East Portion)" (hereinafter referred to as "the Project") has been selected by the Department of Highways, Ministry of Transport (hereinafter referred to as "DOH") and JICA. Necessary procedures and arrangements are in progress in respective governments.

According to the Record of Discussions of the umbrella Project signed on 13 January, JICA sent the Preparatory Survey Team (hereinafter referred to as "the Team"), which was headed by Mr. Kazuhiro Yoneda, Chief Representative, JICA Thailand Office, and was scheduled to stay in the country from February 22nd to the end of August, 2012. The Team held discussions with the officials concerned of GOT and conducted a field survey in the study area.

In the course of discussions and field survey, both parties confirmed the main items described on the attached sheets. The Team will proceed to further works and prepare the Preparatory Survey Report.

Bangkok, February 24, 2012



Mr. Kazuhiro Yoneda
Leader
Preparatory Survey Team
Japan International Cooperation Agency



Mr. Wanchai Parkluck
Director General
Department of Highways,
Ministry of Transport

ATTACHMENT

1. Background

- October 2012 The flood of the Chao Phraya River began to affect the people and economy of the Kingdom of Thailand.
- October 19 – 28, 2011 JICA Needs Survey Team investigated the flood damages.
- November 7, 2011 Government of Thailand (Ministry of Foreign Affairs) officially requested the umbrella Project proposed by the RID and DWR.
- December 22, 2011 Minutes of Meetings which described basic understanding both sides about framework, contents and important issues to be concerned of the umbrella Project was signed and exchanged by RID, DWR and JICA witnessed by the National Economic and Social Development Board (hereinafter referred to as “NESDB”).
- December 22, 2011 Consultant Team of the umbrella Project was assigned by JICA.
- January 13, 2012 Record of Discussion (hereinafter referred to as “R/D”) which stipulated contents of the umbrella Project was signed and exchanged by NESDB, RID, DWR and JICA.

2. Outline of the umbrella Project

- Component 1: Comprehensive flood management plan considering the effect of the climate change and land development. This component consists of two (2) sub-components as follows;
- Sub-component 1-1: Preparation of a detailed map necessary for reviewing the M/P of 1999 (Sub-component 1-2)
- Sub-component 1-2: Review of the “Study on integrated plan for flood mitigation in Chao Phraya River Basin” (hereinafter referred to as “M/P”)
- Component 2: Outline design for Japanese Grant Aid for Disaster Prevention and Reconstruction
- Component 3: Pilot projects of emergency rehabilitations and/or urgent countermeasures to protect the priority area such as the industrial complex and/or Bangkok are implemented

- This Preparatory Survey will be conducted under the Component 2.

3. Project Title

Both sides agreed that the project title for this survey was “The Rehabilitation Project of the Outer Bangkok Ring Road (East Portion)”.

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4. Objective of the Project

The objective of the Project is to secure the function of logistic network even in the time of flood disaster by heightening the Outer Bangkok Ring Road (East Potion).

5. Project site

The site of the Project is located on the Outer Bangkok Ring Road (East Potion) from the traffic origin to 30 kilometers point as shown in ANNEX 1.

6. Responsible and Implementing Agency

The responsible and implementing entity for the Project is the Department of Highways, Ministry of Transport.

7. Items requested by the Government of Thailand

Through discussions between DOH and the Team, the requested components were confirmed as below.

➤ Heightening one side of the road surface level of the Outer Bangkok Ring Road (East Potion) which goes to the north bound where:

- (1) the level of the road surface is 20 centimeter or more lower than the highest level of the 2011 flood, and
- (2) the toll gates are situated.

Appropriateness and necessity of the request will be assessed and specifications of the request will be decided based on the result of the Preparatory Survey and additional survey done by the JICA's consultant in consideration with budget availability of Japan's Grant Aid and operation and maintenance capacity of DOH.

8. Japan's Grant Aid Scheme

8-1 Thai side understands the Japan's Grant Aid Scheme explained by the Team, as described in ANNEX 2. Thai side also understands that the procedure for the Project is specially arranged due to emergency treatment.


8-2 Thai side will take the necessary measures, as described in ANNEX 3, for smooth implementation of the Project.

9. Schedule of the Survey

9-1 The Team will proceed for further studies in Thailand until the end of August, 2012.

9-2 The Team will prepare the progress report of the Preparatory Survey in English. JICA will dispatch a mission to explain its contents in May.

Contents of the progress report will consist of technical notes, preliminary design, undertakings and inputs from each Government and necessary measures for environmental



and social consideration.

9-3 JICA will prepare the final report of the Preparatory Survey and dispatch a mission to explain its contents in August.

Contents of the final report will be detailed design, implementation plan, cost estimation, and maintenance and monitoring plan.

In addition to the final report, a set of reference documents for making bid documents will be prepared.

9-4 JICA will finalize the final report and send it to the GOT by the end of August, 2012.

10. Other relevant issues

10-1 Responsibility for the detailed design and bid document

Through the Preparatory Survey and additional survey, JICA will prepare detailed design and related documents just as reference documents for conducting bidding procedure. GOT has to take necessary procedure to authorize the detailed design and the bid document after receiving reference documents.

10-2 Provision of Disposal Area of Construction Debris

Thai side agreed to provide the area for construction debris which was from removing the existing pavement and its foundation of the road to be heightened by the Project and take necessary measures according to the related law before the commencement of the construction work.

10-3 Environmental and Social Considerations

Both sides agreed that it is not necessary to take procedures for the approval of Environmental Impact Assessment (hereinafter referred to as "EIA") for the Project according to the laws and regulations of Thailand.

The Team explained that the Project is temporally categorized as "B" based on JICA's Guidelines for Environmental and Social Considerations (April, 2010) because the Project does not have significant adverse impact but needs careful consideration for environmental and social impact as it is new construction project. Thus Initial Environmental Examination (hereinafter referred to as "IEE") shall be conducted for the Project.

Both sides agreed that IEE have to be applied to the Project, and IEE will be confirmed by DOH with support from the Team by the time of discussion on the progress report of the Preparatory Survey.

GOT shall have a full responsibility for explanation to stakeholders about environmental impacts of the Project, if necessary.

Also GOT is requested to take actions such as preparing environmental check list as shown in ANNEX 4 as a blank form and taking the monitoring procedure in accordance with the monitoring form as shown in ANNEX 5.

The environmental check list and the monitoring form have to be prepared by the time of discussion on the progress report of the Preparatory Survey.

10-4 Design Policy and Condition

Both sides agreed on the design policy and condition as shown in the Inception Report as the related document to this Minutes of Discussions. If any changes and/or detailed technical issue to be confirmed between both sides arise, technical note will be made, signed and exchanged by both sides. Representative of JICA side for this technical matter is a leader of consultant team, and representative of Thai side is Deputy Director General for Engineering of DOH.

10-5 Arrangement for the Survey

As response to the request by the Team, Thai side agreed to arrange following items:

- (1) To provide the Team with available data, information and materials necessary for the execution of the Survey which was agreed in R/D.
- (2) To prepare the answers for the Questionnaires presented by the Team,
- (3) To assign full-time counterparts to the Team during their stay in Thailand and to play the following roles as the coordinator to the Team:
 - 1) To make the appointments and to set up the meetings with the authorities, departments and all other factories and firms whatever the Team intends to visit,
 - 2) To attend site survey and any other visiting place with the Team and to make any convenience on accommodation, working room, adequate transportation, getting the permissions if required, etc., and
 - 3) To assist and to advise the Team for their collection of data and information as much as possible,
- (4) To take any necessary measures deemed necessary to secure the safety of the members of the Team, and
- (5) To make arrangements to allow the Team to bring back to Japan any necessary data, maps and materials related to the Preparatory Survey, subject to approval by the GOT, in order to prepare the report.

10-6 Operation and Maintenance cost

Necessary cost for operation and maintenance of the project after the completion of the Project will be surveyed through the Preparatory Survey.

10-7 Confidentiality of the Project

All the information related to the Project such as detailed drawings, specifications, and the result of cost estimation shall not be released to a third party before conclusion of all the contract(s) for the Project, because they are confidential documents that contain



information related to the tender.

10-8 Tax Exemption

The tax exemption including Value Added Tax (VAT), custom duty, and any other taxes and fiscal levies in Thailand which is to be arisen from the Project activities will be ensured by DOH. DOH and the Thailand International Development Cooperation Agency will take any procedures necessary for tax exemption with the Ministry of Finance of Thailand at their responsibility.

Annex 1: Project Site


Annex 2: Grant Aid Scheme JAPAN'S GRANT AID

Annex 3: Major Undertakings to be taken by Each Government

Annex 4: Environmental Checklist

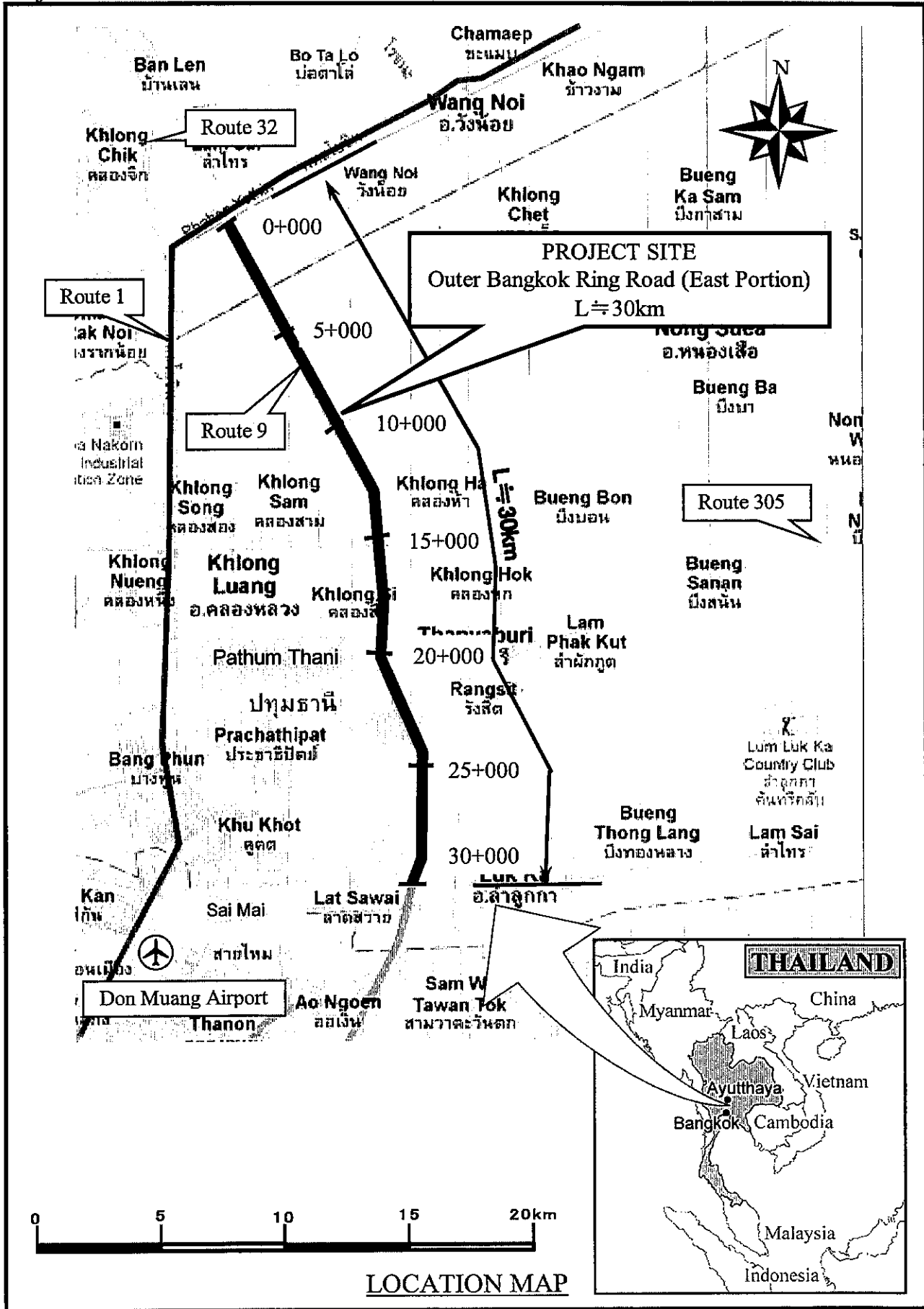
Annex 5: Monitoring Form

Related Document to the Minutes of Discussions: Inception Report



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Project Site



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Grant Aid Scheme JAPAN'S GRANT AID

The Government of Japan (hereinafter referred to as “the GOJ”) is implementing the organizational reforms to improve the quality of ODA operations, and as a part of this realignment, a new JICA law was entered into effect on October 1, 2008. Based on this law and the decision of the GOJ, JICA has become the executing agency of the Grant Aid for General Projects, for Fisheries and for Cultural Cooperation, etc.

The Grant Aid is non-reimbursable fund provided to a recipient country to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for its economic and social development in accordance with the relevant laws and regulations of Japan. The Grant Aid is not supplied through the donation of materials as such.

1. Grant Aid Procedures

The Japanese Grant Aid is supplied through following procedures:

- Preparatory Survey
 - The Survey conducted by JICA
- Appraisal & Approval
 - Appraisal by the GOJ and JICA, and Approval by the Japanese Cabinet
- Authority for Determining Implementation
 - The Notes exchanged between the GOJ and a recipient country
- Grant Agreement (hereinafter referred to as “the G/A”)
 - Agreement concluded between JICA and a recipient country
- Implementation
 - Implementation of the Project on the basis of the G/A

2. Preparatory Survey

(1) Contents of the Survey

The aim of this Preparatory Survey is to provide reference documents for making bid document for the contract of the Project. The contents of the Survey are as follows:

- Confirmation of the background, objectives, and benefits of the Project and also institutional capacity of relevant agencies of the recipient country necessary for the implementation of the Project.
- Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, financial, social and economic point of view.
- Confirmation of items agreed between both parties concerning the basic concept of the Project.
- Preparation of an outline design and detailed design of the Project.
- Estimation of costs of the Project.

The contents of the original request by the recipient country are not necessarily approved in their initial form as the contents of the Grant Aid project. The Detailed Design of the Project is confirmed based on the guidelines of the Japan's Grant Aid scheme.

JICA requests the Government of the recipient country to take whatever measures necessary to achieve its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization of the recipient country which actually implements the Project. Therefore, the implementation of the Project is confirmed

by all relevant organizations of the recipient country based on the Minutes of Discussions.

(2) Selection of Consultants

For smooth implementation of the Survey, JICA employs (a) registered consulting firm(s). JICA selects (a) firm(s) based on proposals submitted by interested firms.

(3) Result of the Survey

JICA reviews the Report on the results of the Survey and transfers it to the Government of recipient country.

3. Japan's Grant Aid Scheme

(1) The E/N and the G/A

After the Project is approved by the Cabinet of Japan, the Exchange of Notes (hereinafter referred to as "the E/N") will be signed between the GOJ and the Government of the recipient country to make a pledge for assistance, which is followed by the conclusion of the G/A between JICA and the Government of the recipient country to define the necessary articles to implement the Project, such as payment conditions, responsibilities of the Government of the recipient country, and procurement conditions.

(2) Selection of Consultants

In order to maintain technical consistency, the consulting firm(s) which conducted the Survey will be recommended by JICA to the recipient country to continue to work on the Project's implementation after the E/N and G/A.

(3) Eligible source country

Under the Japanese Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased. When JICA and the Government of the recipient country or its designated authority deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country. However, the prime contractors, namely, constructing and procurement firms, and the prime consulting firm are limited to "Japanese nationals".

(4) Necessity of "Verification"

The Government of the recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by JICA. This "Verification" is deemed necessary to fulfill accountability to Japanese taxpayers.

(5) Major undertakings to be taken by the Government of the Recipient Country

In the implementation of the Grant Aid Project, the recipient country is required to undertake such necessary measures as Annex 3.

(6) "Proper Use"

The Government of the recipient country is required to maintain and use properly and effectively the facilities constructed and the equipment purchased under the Grant Aid, to assign staff necessary for this operation and maintenance and to bear all the expenses other than those covered by the Grant Aid.

(7) "Export and Re-export"

The products purchased under the Grant Aid should not be exported or re-exported from the recipient country.

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(8) Banking Arrangements (B/A)

- a) The Government of the recipient country or its designated authority should open an account under the name of the Government of the recipient country in a bank in Japan (hereinafter referred to as "the Bank"). JICA will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.
- b) The payments will be made when payment requests are presented by the Bank to JICA under an Authorization to Pay (A/P) issued by the Government of the recipient country or its designated authority.

(9) Authorization to Pay (A/P)

The Government of the recipient country should bear an advising commission of an Authorization to Pay and payment commissions paid to the Bank.

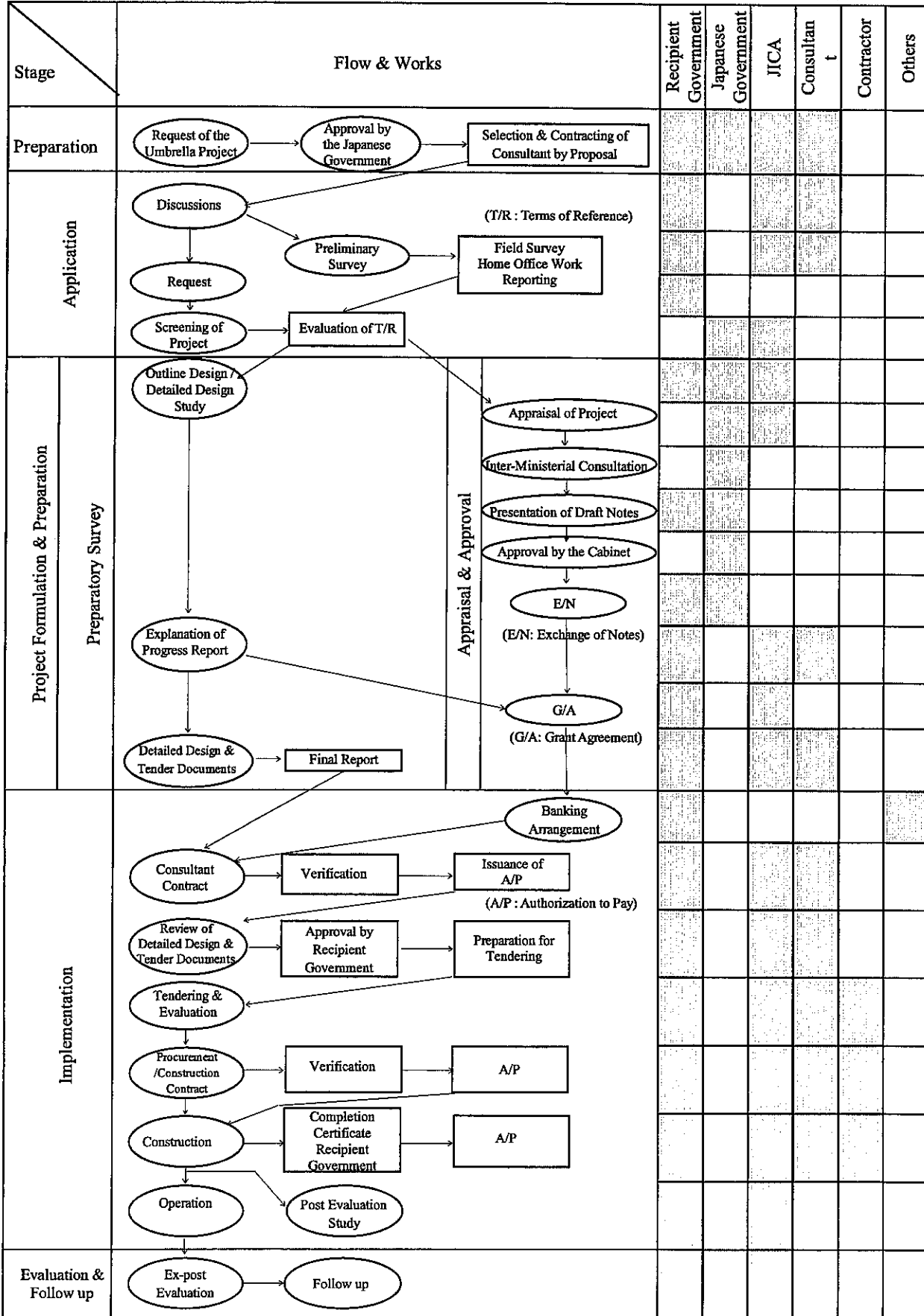
(10) Social and Environmental Considerations


A recipient country must carefully consider social and environmental impacts by the Project and must comply with the environmental regulations of the recipient country and JICA's Guidelines for Environmental and Social Considerations (April, 2010).



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FLOW CHART OF JAPAN'S GRANT AID PROCEDURES IN THIS CASE



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Major Undertakings to be taken by Each Government

No.	Items	To be covered by Grant Aid	To be covered by Recipient Side
1	to secure [a lot]/[lots] of land necessary for the implementation of the Project and to clear the [site]/[sites];		●
2	To ensure prompt customs clearance of the products and to assist internal transportation of the products in the recipient country		
	1) Marine (Air) transportation of the Products from Japan to the recipient country	●	
	2) Tax exemption and custom clearance of the Products at the port of disembarkation		●
	3) Internal transportation from the port of disembarkation to the project site	(●)	(●)
3	To ensure that customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the purchase of the products and the services [be exempted] / [be borne by the Authority without using the Grant]		●
4	To accord Japanese nationals whose services may be required in connection with the supply of the products and the services such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work		●
5	To ensure that the Facilities be maintained and used properly and effectively for the implementation of the Project		●
6	To bear all the expenses, other than those covered by the Grant, necessary for the implementation of the Project		●
7	To bear the following commissions paid to the Japanese bank for banking services based upon the B/A		
	1) Advising commission of A/P		●
	2) Payment commission		●
8	To give due environmental and social consideration in the implementation of the Project.		●

(B/A : Banking Arrangement, A/P : Authorization to pay)

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Environmental Checklist: 7. Roads

Category	Environmental Item	Main Check Items	Yes: Y No: N	Confirmation of Environmental Considerations (Reasons, Mitigation Measures)
1 Permits and Explanation	(1) EIA and Environmental Permits	(a) Have EIA reports been already prepared in official process? (b) Have EIA reports been approved by authorities of the host country's government? (c) Have EIA reports been unconditionally approved? If conditions are imposed on the approval of EIA reports, are the conditions satisfied? (d) In addition to the above approvals, have other required environmental permits been obtained from the appropriate regulatory authorities of the host country's government?	(a) (b) (c) (d)	(a) (b) (c) (d)
	(2) Explanation to the Local Stakeholders	(a) Have contents of the project and the potential impacts been adequately explained to the Local stakeholders based on appropriate procedures, including information disclosure? Is understanding obtained from the Local stakeholders? (b) Have the comment from the stakeholders (such as local residents) been reflected to the project design?	(a) (b)	(a) (b)
	(3) Examination of Alternatives	(a) Have alternative plans of the project been examined with social and environmental considerations?	(a)	(a)
2 Pollution Control	(1) Air Quality	(a) Is there a possibility that air pollutants emitted from the project related sources, such as vehicles traffic will affect ambient air quality? Does ambient air quality comply with the country's air quality standards? Are any mitigating measures taken? (b) Where industrial areas already exist near the route, is there a possibility that the project will make air pollution worse?	(a) (b)	(a) (b)
	(2) Water Quality	(a) Is there a possibility that soil runoff from the bare lands resulting from earthmoving activities, such as cutting and filling will cause water quality degradation in downstream water areas? (b) Is there a possibility that surface runoff from roads will contaminate water sources, such as groundwater? (c) Do effluents from various facilities, such as parking areas/service areas comply with the country's effluent standards and ambient water quality standards? Is there a possibility that the effluents will cause areas not to comply with the country's ambient water quality standards?	(a) (b) (c)	(a) (b) (c)
	(3) Wastes	(a) Are wastes generated from the project facilities, such as parking areas/service areas, properly treated and disposed of in accordance with the country's regulations?	(a)	(a)

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	(4) Noise and Vibration	(a) Do noise and vibrations from the vehicle and train traffic comply with the country's standards?	(a)	(a)
3 Natural Environment	(1) Protected Areas	(a) Is the project site located in protected areas designated by the country's laws or international treaties and conventions? Is there a possibility that the project will affect the protected areas?	(a)	(a)
	(2) Ecosystem	(a) Does the project site encompass primeval forests, tropical rain forests, ecologically valuable habitats (e.g., coral reefs, mangroves, or tidal flats)? (b) Does the project site encompass the protected habitats of endangered species designated by the country's laws or international treaties and conventions? (c) If significant ecological impacts are anticipated, are adequate protection measures taken to reduce the impacts on the ecosystem? (d) Are adequate protection measures taken to prevent impacts, such as disruption of migration routes, habitat fragmentation, and traffic accident of wildlife and livestock? (e) Is there a possibility that installation of roads will cause impacts, such as destruction of forest, poaching, desertification, reduction in wetland areas, and disturbance of ecosystems due to introduction of exotic (non-native invasive) species and pests? Are adequate measures for preventing such impacts considered? (f) In cases the project site is located at undeveloped areas, is there a possibility that the new development will result in extensive loss of natural environments?	(a) (b) (c) (d) (e) (f)	(a) (b) (c) (d) (e) (f)
	(3) Hydrology	(a) Is there a possibility that alteration of topographic features and installation of structures, such as tunnels will adversely affect surface water and groundwater flows?	(a)	(a)
	(4) Topography and Geology	(a) Is there any soft ground on the route that may cause slope failures or landslides? Are adequate measures considered to prevent slope failures or landslides, where needed? (b) Is there a possibility that civil works, such as cutting and filling will cause slope failures or landslides? Are adequate measures considered to prevent slope failures or landslides? (c) Is there a possibility that soil runoff will result from cut and fill areas, waste soil disposal sites, and borrow sites? Are adequate measures taken to prevent soil runoff?	(a) (b) (c)	(a) (b) (c)

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4 Social Environment	(1) Resettlement	(a) Is involuntary resettlement caused by project implementation? If involuntary resettlement is caused, are efforts made to minimize the impacts caused by the resettlement?(b) Is adequate explanation on compensation and resettlement assistance given to affected people prior to resettlement?(c) Is the resettlement plan, including compensation with full replacement costs, restoration of livelihoods and living standards developed based on socioeconomic studies on resettlement?(d) Are the compensations going to be paid prior to the resettlement?(e) Are the compensation policies prepared in document?(f) Does the resettlement plan pay particular attention to vulnerable groups or people, including women, children, the elderly, people below the poverty line, ethnic minorities, and indigenous peoples?(g) Are agreements with the affected people obtained prior to resettlement?(h) Is the organizational framework established to properly implement resettlement? Are the capacity and budget secured to implement the plan?(i) Are any plans developed to monitor the impacts of resettlement?(j) Is the grievance redress mechanism established?	(a)(b)(c)(d)(e)(f)(g)(h)(i)(j)	(a)(b)(c)(d)(e)(f)(g)(h)(i)(j)
	(2) Living and Livelihood	(a) Where roads are newly installed, is there a possibility that the project will affect the existing means of transportation and the associated workers? Is there a possibility that the project will cause significant impacts, such as extensive alteration of existing land uses, changes in sources of livelihood, or unemployment? Are adequate measures considered for preventing these impacts? (b) Is there any possibility that the project will adversely affect the living conditions of the inhabitants other than the target population? Are adequate measures considered to reduce the impacts, if necessary? (c) Is there any possibility that diseases, including infectious diseases, such as HIV will be brought due to immigration of workers associated with the project? Are adequate considerations given to public health, if necessary? (d) Is there any possibility that the project will adversely affect road traffic in the surrounding areas (e.g., increase of traffic congestion and traffic accidents)? (e) Is there any possibility that roads will impede the movement of inhabitants? (f) Is there any possibility that structures associated with roads (such as bridges) will cause a sun shading and radio interference?	(a) (b) (c) (d) (e) (f)	(a) (b) (c) (d) (e) (f)

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4 Social Environment	(3) Heritage	(a) Is there a possibility that the project will damage the local archeological, historical, cultural, and religious heritage? Are adequate measures considered to protect these sites in accordance with the country's laws?	(a)	(a)
	(4) Landscape	(a) Is there a possibility that the project will adversely affect the local landscape? Are necessary measures taken?	(a)	(a)
	(5) Ethnic Minorities and Indigenous Peoples	(a) Are considerations given to reduce impacts on the culture and lifestyle of ethnic minorities and indigenous peoples? (b) Are all of the rights of ethnic minorities and indigenous peoples in relation to land and resources to be respected?	(a) (b)	(a) (b)
	(6) Working Conditions	(a) Is the project proponent not violating any laws and ordinances associated with the working conditions of the country which the project proponent should observe in the project? (b) Are tangible safety considerations in place for individuals involved in the project, such as the installation of safety equipment which prevents industrial accidents, and management of hazardous materials? (c) Are intangible measures being planned and implemented for individuals involved in the project, such as the establishment of a safety and health program, and safety training (including traffic safety and public health) for workers etc.? (d) Are appropriate measures being taken to ensure that security guards involved in the project not to violate safety of other individuals involved, or local residents?	(a) (b) (c) (d)	(a) (b) (c) (d)
5 Others	(1) Impacts during Construction	(a) Are adequate measures considered to reduce impacts during construction (e.g., noise, vibrations, turbid water, dust, exhaust gases, and wastes)? (b) If construction activities adversely affect the natural environment (ecosystem), are adequate measures considered to reduce impacts? (c) If construction activities adversely affect the social environment, are adequate measures considered to reduce impacts?	(a) (b) (c)	(a) (b) (c)

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	(2) Monitoring	(a) Does the proponent develop and implement monitoring program for the environmental items that are considered to have potential impacts? (b) What are the items, methods and frequencies of the monitoring program? (c) Does the proponent establish an adequate monitoring framework (organization, personnel, equipment, and adequate budget to sustain the monitoring framework)? (d) Are any regulatory requirements pertaining to the monitoring report system identified, such as the format and frequency of reports from the proponent to the regulatory authorities?	(a) (b) (c) (d)	(a) (b) (c) (d)
6 Note	Reference to Checklist of Other Sectors	(a) Where necessary, pertinent items described in the Forestry Projects checklist should also be checked (e.g., projects including large areas of deforestation).(b) Where necessary, pertinent items described in the Power Transmission and Distribution Lines checklist should also be checked (e.g., projects including installation of power transmission lines and/or electric distribution facilities).	(a)(b)	(a)(b)
	Note on Using Environmental Checklist	(a) If necessary, the impacts to transboundary or global issues should be confirmed, if necessary (e.g., the project includes factors that may cause problems, such as transboundary waste treatment, acid rain, destruction of the ozone layer, or global warming).	(a)	(a)

1) Regarding the term "Country's Standards" mentioned in the above table, in the event that environmental standards in the country where the project is located diverge significantly from international standards, appropriate environmental considerations are required to be made.

In cases where local environmental regulations are yet to be established in some areas, considerations should be made based on comparisons with appropriate standards of other countries (including Japan's experience).

2) Environmental checklist provides general environmental items to be checked. It may be necessary to add or delete an item taking into account the characteristics of the project and the particular circumstances of the country and locality in which it is located.

W. Parkhead



MONITORING FORM

-If environmental reviews indicate the need of monitoring by JICA, JICA undertakes monitoring for necessary items that are decided by environmental reviews. JICA undertakes monitoring based on regular reports including measured data submitted by the project proponent. When necessary, the project proponent should refer to the following monitoring form for submitting reports.

-When monitoring plans including monitoring items, frequencies and methods are decided, project phase or project life cycle (such as construction phase and operation phase) should be considered.

1. Responses/Actions to Comments and Guidance from Government Authorities and the Public

Monitoring Item	Monitoring Results during Report Period
ex.) Responses/Actions to Comments and Guidance from Government Authorities	

2. Mitigation Measures

- Air Quality (Emission Gas / Ambient Air Quality)

Item	Unit	Measured Value (Mean)	Measured Value (Max.)	Country's Standards	Referred International Standards	Remarks (Measurement Point, Frequency, Method, etc.)
SO ₂						
NO ₂						
CO						
O ₃						
Soot and dust						
SPM						
Dust						

- Water Quality (Effluent/Wastewater/Ambient Water Quality)

I. II. III. Item	1. 2. 3. Unit	Measured Value (Mean)	Measured Value (Max.)	Country's Standards	Referred International Standards	Remarks (Measurement Point, Frequency, Method, etc.)
pH						
SS (Suspended Solid)						
BOD/COD						
DO						
Total Nitrogen						

Total Phosphorus						
Heavy Metals						
Hydrocarbons / Mineral Oils						
Phenols						
Cyanide						
Temperature						

- Waste

Monitoring Item	Monitoring Results during Report Period

- Noise / Vibration

Item	Unit	Measured Value (Mean)	Measured Value (Max.)	Country's Standards	Referred International Standards	Remarks (Measurement Point, Frequency, Method, etc.)
Noise level						
Vibration level						

- Odor

Monitoring Item	Monitoring Results during Report Period

3. Natural Environment

- Ecosystem

Monitoring Item	Monitoring Results during Report Period
ex.) Negative effects/Actions to Valuable species	

4. Social Environment

- Resettlement

Monitoring Item	Monitoring Results during Report Period

- Living / Livelihood

Monitoring Item	Monitoring Results during Report Period

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**b) 概略設計プロセス・レポート
現地説明・協議**

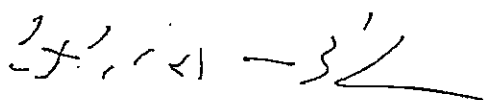
MINUTES OF MEETINGS
ON THE PREPARATORY SURVEY
ON THE REHABILITATION PROJECT
OF THE OUTER BANGKOK RING ROAD (EAST PORTION)
IN THE KINGDOM OF THAILAND

According to the Minutes of Discussions on the Preparatory Survey on "The Rehabilitation Project of the Outer Bangkok Ring Road (East Portion)" (hereinafter referred to as "the Project") on February 29, 2012, JICA Study Team conducted series of field survey and discussion among related organization, and finally made Progress Report as attached.

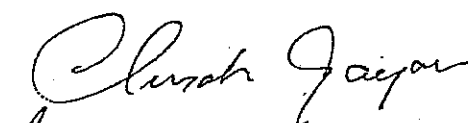
On this occasion, the JICA Preparatory Survey Team (hereinafter referred to as "the Team"), which was headed by Mr. Kazuhiro Yoneda, Chief Representative, JICA Thailand Office and Department of Highways (hereinafter referred to as "DOH") had discussions on the contents of the Progress Report, and reached to the agreement.

The contents of the discussions which should be taken note are attached as the Annex.

Bangkok, May 31, 2012



Mr. Kazuhiro Yoneda
Leader
Preparatory Survey Team
Japan International Cooperation Agency



Mr. Wanchai Parkluck
Director General
Department of Highways,
Ministry of Transport

1. Technical Issue

The Thai side basically understood and agreed on the Technical Note as the Attachment-3 of the Progress Report as main points of technical issues and preliminary design of the road and related structures.

2. Obligation of Thai side

2-1 The Team explained the obligations of Thai side and Thai side agreed on the contents as follow.

- (1) To provide documents, data and information necessary for the execution of this project;
- (2) To acquire land for construction works;
- (3) To secure land for the construction yard, stock-piling yard, site office, girders' manufacturing yard, and detour routes;
- (4) To secure borrow pits, spoil-banks, and industrial waste disposal areas;
- (5) To obtain all necessary permits, to coordinate and share necessary information with concerning organizations regarding the method of road occupancy of the Motorway, method for allowing public vehicles, traffic restrictions, and day-time, night-time works;
- (6) To release information and take necessary steps before hand regarding blockage of road for public vehicles during relocation of overhead facilities such as traffic signs ;
- (7) To coordinate with the concerned organization of underground utilities pertaining to its protection, reinforcement/ repair and to release information as well as to take necessary steps to alert the road users and the locals in case disruption of water and electricity are anticipated;
- (8) To coordinate with the concerned organization of street lights and electronic traffic sign regarding its protection or/and its relocation and to take necessary steps to inform the road users beforehand in case of disruption of electricity is anticipated;
- (9) To obtain necessary permits for allowing the personnel engaged in the construction work such as the supervision engineer, construction workers etc. to access the motorway;
- (10) To obtain necessary permits to allow the construction vehicles and equipment to enter and exit the motorway;
- (11) To bear the Advising Commission and Payment Commission to the Japanese bank where an account related to the project is opened, for the banking services like service charge and disbursement charge;
- (12) To bear the value-added-tax related to the project;
- (13) To assist in the process for exemption of materials imported for the construction work from taxation and Customs clearance in order to ensure smooth inland transportation;

- (14) To assist in the process for exemption of Japanese nationals engaged in the construction work from Customs duties and other fiscal levies on products and services necessary for the execution of the project;
- (15) To assist in the process for exemption of Japanese nationals from all legislation measures necessary for entering and staying in the Kingdom of Thailand;
- (16) To ensure proper use and maintenance of the road after its construction;
- (17) To cooperate in solving potential troubles with the local people or any third party in connection with the execution of the project; and
- (18) To bear all expenses required for the execution of the project, other than those borne by the Grant-Aid of Japan.

Thai side explained that some items such as Customs Clearance, Customs Duties, and Fiscal Levies were not responsibility of DOH, and DOH could just assist for those items. The Team understood it, and the Team requested DOH to consult with responsible organizations and Thailand International Development Cooperation Agency on the issue. DOH agreed on it.

2-2 According to the request from Thai side, the Team agreed that following issue would be included into the Japanese Grant Aid Project.

- (1) To install equipment for electricity at the site office;
- (2) To remove or/and relocate obstacles of construction (toll gate facilities, trees); and
- (3) To pay the toll fees for construction vehicles and equipment to enter and exit the motorway.

3. Environmental Consideration

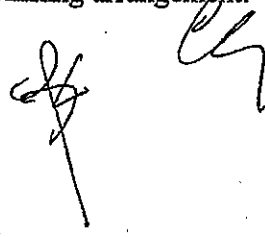
3-1 Both sides basically agreed on the draft of Initial Environmental Examination Report for the Project. Although the result of evaluation will not be changed from the draft version, it needs some modification on the wording according to the comments from the section/department in charge of the environmental issue of the both sides. The report will be finalized within three weeks by Thai side with the technical support from the Team and be confirmed by another minutes of meetings signed by Chief Engineer of the Team and representative of DOH.

3-2 DOH questioned regarding the Mitigation Plan whether the mitigation plans could be included into the contract and DOH would just conduct monitoring or not. The Team answered that contents of the mitigation plan could be included into the contract and DOH monitor those activities.

4. Banking Account

Thai side questioned to the Team whether the Bank could be Japanese Bank which has a branch in Bangkok or not. The Team answered that DOH has to open the Banking Account in Japan and opening the account in any branch in Bangkok or Thailand could not be accepted.

Thai side understood it and requested the Team to assist for the Process. The Team answered that Bank in Japan and consultant Team can assist DOH for banking arrangement.

Two handwritten signatures in black ink. The signature on the left is more complex and stylized, while the one on the right is simpler and more fluid.

MINUTES OF MEETINGS
ON THE PREPARATORY SURVEY
ON THE REHABILITATION PROJECT
OF THE OUTER BANGKOK RING ROAD (EAST PORTION)
IN THE KINGDOM OF THAILAND

According to the Minutes of Meetings on the Preparatory Survey on “The Rehabilitation Project of the Outer Bangkok Ring Road (East Portion)” (hereinafter referred to as “the Project”) on May 31, 2012, Department of Highways, Ministry of Transport (hereinafter referred to as “DOH”) finalized the Initial Environmental Examination Report (hereinafter referred to as “the IEE Report”) with the technical support from the JICA Preparatory Survey Team (hereinafter referred to as “the Team”) as attached.

On the meeting, DOH and the Team had discussions on the contents of the IEE Report, and reached the agreement.

Bangkok, June 19, 2012

Mr. Takahiro MISHINA
Chief Engineer
JICA Preparatory Survey Team

Mr. Chusak GAYWEE
Deputy Director General for Engineering
Department of Highways
Ministry of Transport

**c) 概略設計ファイナル・レポート
現地説明・協議**

MINUTES OF MEETINGS
ON THE PREPARATORY SURVEY
ON THE REHABILITATION PROJECT OF THE OUTER BANGKOK RING ROAD
IN THE KINGDOM OF THAILAND

According to the Minutes of Discussions on the Preparatory Survey on “The Rehabilitation Project of the Outer Bangkok Ring Road” (hereinafter referred to as “the Project”) on February 24, 2012, JICA Survey Team conducted series of field survey and discussion among related organizations, and finally made draft report of the survey.


In order to explain and consult with Department of Highways (hereinafter referred to as “DOH”) on the components of the draft report, JICA sent the Draft Report Explanation Team (hereinafter referred to as “the Team”), headed by Mr. Kunihiro Yamauchi, Deputy Director General for Planning and Coordination, Global Environment Department, Japan International Cooperation Agency, from August 26 to 29, 2012.

As a result of the discussions, both sides confirmed the items described on the attached sheets.

Bangkok, August 29, 2012



Mr. Kunihiro Yamauchi
Leader
Draft Report Explanation Team
Japan International Cooperation Agency



Mr. Wanchai Parkluck
Director General
Department of Highways,
Ministry of Transport

Attachment

1. Components of the draft report and related documents

DOH agreed with and accepted the contents of the draft report and the related document prepared by the JICA survey team. The Japanese side will finalize the Final Report according to the comments from DOH.

2. Schedule of the Survey

The Team explained the tentative implementation schedule as shown in Annex-2.

DOH requested to minimize construction period to be not more than one and a half years in order to minimize traffic congestion period.

The team answered to consider the request and report in the Final Report.

3. Japan's Grant Aid Scheme

DOH understood Japan's Grant Aid Scheme and the necessary measures to be taken by the Government of Thailand as explained by the Team which was described in the Minutes of Meetings signed on February 24, 2012.

4. Confidentiality on Detailed Specifications

Both sides confirmed all the information related to the Project including technical specifications and drawings and other technical information shall not be released to any other party(ies) before the signing of all the Contract(s) for the Project.

5. Undertakings of Government of Thailand

5-1 To provide documents, data and information necessary for the execution of this project;

5-2 To acquire land for construction works;

5-3 To secure land for the construction yard, stock yard, disposal area for construction debris, site office yard and detour routes;

5-4 To secure borrow pits, spoil-banks, and industrial waste disposal areas;

5-5 To obtain all necessary permits, to coordinate and share necessary information with the organizations concerned regarding the method of road occupancy of the Motorway, method for allowing public vehicles, traffic restrictions, and day-time, night-time works;

5-6 To release information and take necessary steps before hand regarding blockage of road for public vehicles during relocation of overhead facilities such as traffic signs;

- 5-7 To coordinate with the organizations concerned of underground utilities pertaining to its protection, reinforcement/repair and to release information as well as to take necessary steps to alert the road users and the locals in case disruption of water and electricity are anticipated;
- 5-8 To coordinate with the organizations concerned of street lights and electronic traffic sign regarding its protection or/and its relocation and to take necessary steps to inform the road users beforehand in case of disruption of electricity is anticipated;
- 5-9 To obtain necessary permits for allowing the personnel engaged in the construction work such as the supervision engineer, construction workers etc. to access the motorway;
- 5-10 To bear toll collection system;
- 5-11 To bear the advising commission and payment commission to the Japanese bank where an account related to the Project is opened, for the banking services like service charge and disbursement charge;
- 5-12 To exempt the value added tax related to the Project;
- 5-13 To assist in the process for exemption of materials imported for the construction work from taxation and customs clearance in order to ensure smooth inland transportation;
- 5-14 To assist in the process for exemption of Japanese nationals engaged in the construction work from customs duties and other fiscal levies on products and services necessary for the execution of the Project;
- 5-15 To assist in the process for exemption of Japanese nationals from all legislation measures necessary for entering and staying in the Kingdom of Thailand;
- 5-16 To ensure proper use and maintenance of the road after its construction;
- 5-17 To cooperate in solving potential troubles with the local people or any third party in connection with the execution of the Project; and
- 5-18 To bear all expenses required for the execution of the Project, other than those borne by the Grant Aid of Japan.

Thai side explained that some items such as value added tax, customs clearance, customs duties, and fiscal levies were not responsibility of DOH, and DOH could just assist for those items. The Team understood it, and the Team requested DOH to consult with responsible organizations and Thailand International Development Cooperation Agency on the issue, DOH agreed on it.

6. Design Policy and Liability on submergence in case of flooding

The Team explained and DOH agreed that:

- (1) the objective of the project is to secure the function of logistic network even in the time of flood disaster by raising existing road elevation;
- (2) the design road elevation is raised with an concept of allowing upto 20cm submergence of water above road surface during similar flooding as in 2011 which recorded historical highest flood level in the surrounding area of the Project sites; and
- (3) in case that the road structure will be soaked or submerged due to flooding and damage of the road occurs, Japanese side including the Consultant and the Contractor shall not be liable for such damages.

7. Consolidation Settlement

7-1 Additional boring investigation

The Team explained and DOH agreed the result of estimation of consolidation settlement, the prospected situation that submergence on the road would be still acceptable level, and that the countermeasures for settlement would not be provided under the Project.

The JICA survey team will conduct additional boring investigation located at the existing carriageway to confirm the calculation of consolidation settlement done by the JICA survey team.

7-2 Allowable consolidation settlement

Both sides agreed that allowable consolidation settlement should be specified in the technical specification of the tender document.

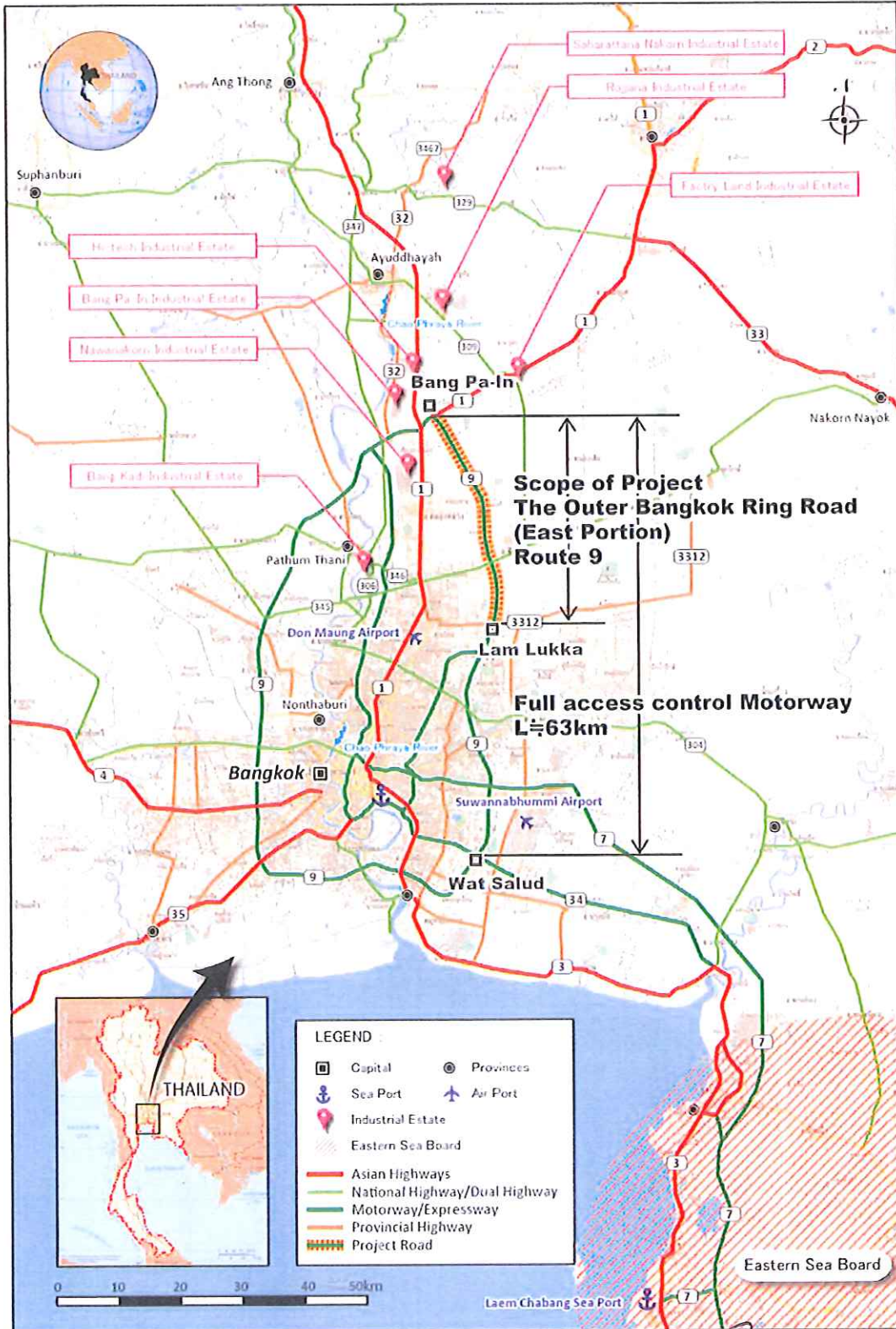
8. Modified Asphalt Concrete Pavement

Both sides agreed that modified asphalt concrete pavement would be applied on the toll gate area and two outer lanes of the normal section for heavy vehicles.



The Contents of the Project

1. Site Location



2. Scope of Work

The Project's scope of work consists of the following items.;

Work Items		Unit	Quantity
Removal Work		L.S.	1
	Asphalt Concrete Pavement in Motorway		
	Cement Concrete Pavement in Toll Gate		
	Median Concrete Barrier		
Pavement Work		L.S.	1
	Motorway		
	Toll Gate		
	Ramp and Frontage Road		
Median Work		L.S.	1
	Concrete Barrier,		
	L-Type Precast Concrete Wall		
Drainage Work		L.S.	1
	Catch Basin		
	Inlet/Outlet Protection		
Safety Work		L.S.	1
	Sign Post, Guide Post		
	Guardrail		
	Signage, Pavement Marking		
Road Earthwork	Slope Protection Work	L.S.	1
Toll Gate Work	Toll Gate, Pedestrian Overpass for Toll Gate Access	L.S.	1
Temporary Works	Traffic Control	L.S.	1




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資料4.C)-7

5

ITEM		2012												2013												2014											
		FY 2012												FY 2013												FY 2014											
		6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12					
Contract	Exchange of Notes, Grant Agreement		▼	▼																																	
	Consultant Contract		E/N	G/A																																	
Bidding Activity	Preparation of Bidding Document																																				
	Bidding Document Approval																																				
	Bid Announcement and Pre-qualification of Bidders																																				
	Bidding, Evaluation of Bid Documents																																				
	Contract Agreement																																				
	Construction Schedule	Preparation																																			
	Temporary Work (Traffic Control)																																				
	Pavement Work (Raising Road Elevation)																																				
	Toll Gate Work																																				
	Demobilization																																				

REGEND
 E/N : Exchange of Notes
 G/A : Grant Agreement

Tentative Implementation Schedule

Annex-2