国際協力事業団 タイ国発電公社 タ イ 王 国

タイ国首都圏送変電設備増強計画調査

最終報告書

付 録

1993年8月

電源開発株式会社

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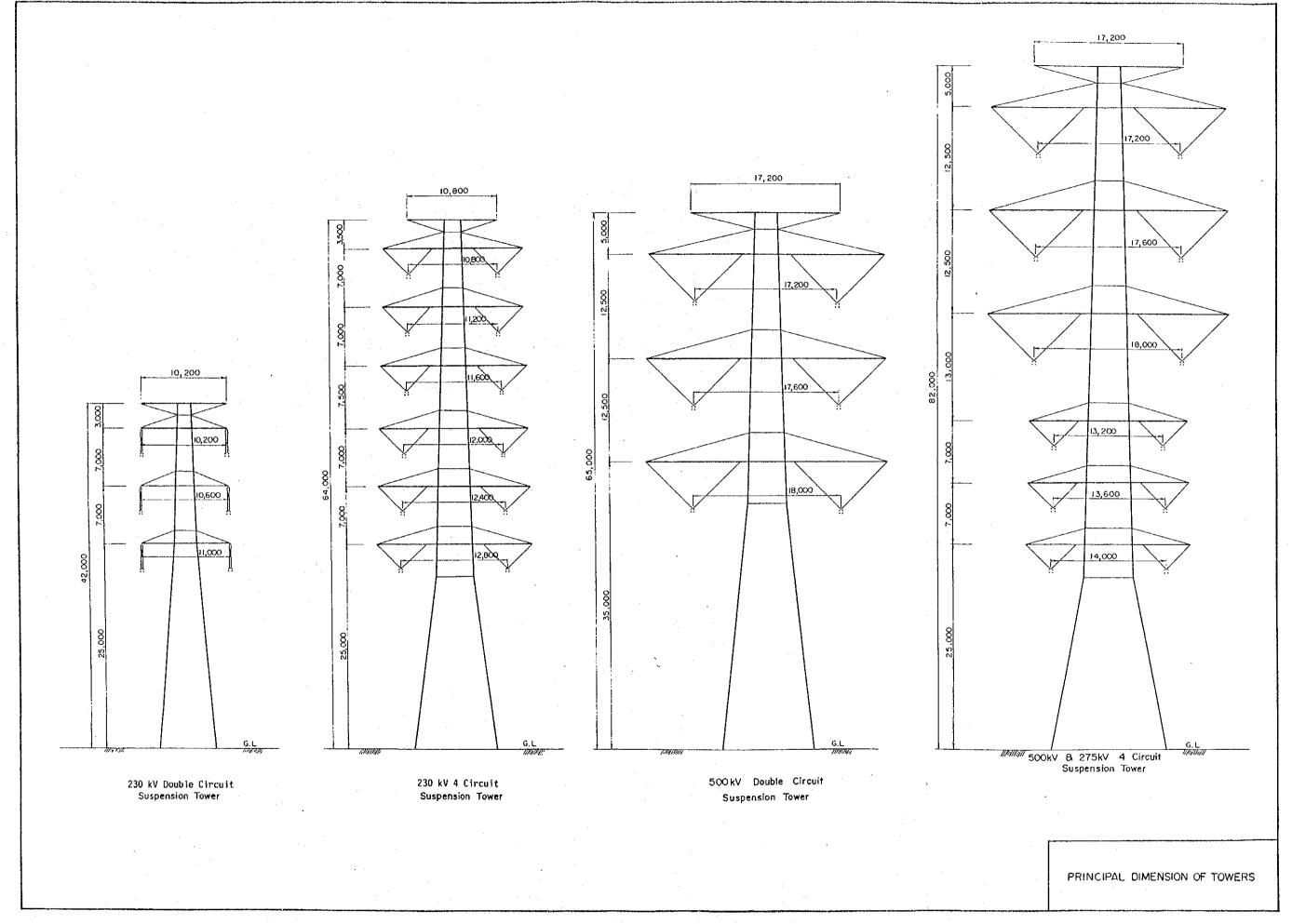
国際協力事業団 25411

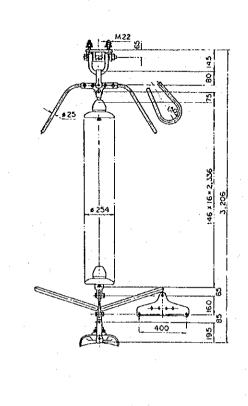
APPENDIX 1

Appendix
Table 6-A
full name and abbreviation of each substation in Thailand

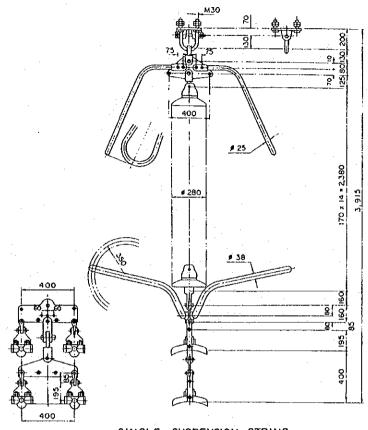
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33. CHA-AM									
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APPENDIX 2

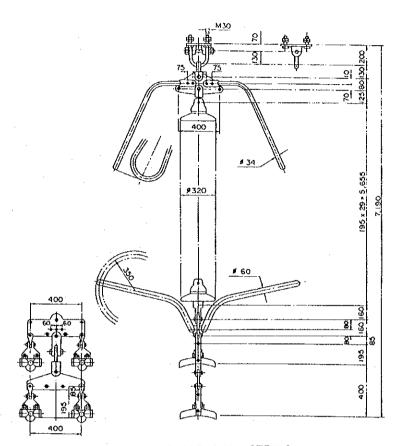




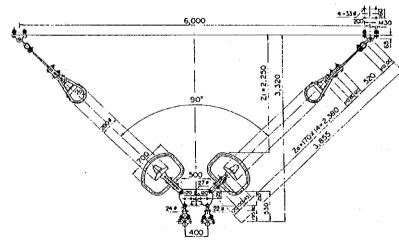
SINGLE SUSPENSION STRING TWIN CONDUCTORS



SINGLE SUSPENSION STRING
4 BUNDLE CONDUCTORS



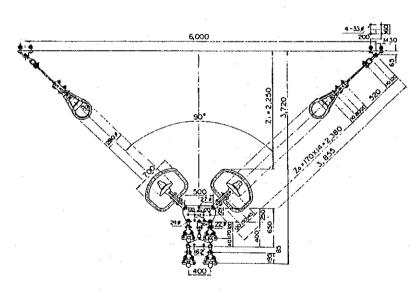
SINGLE SUSPENSION STRING 4 BUNDLE CONDUCTORS



V TYPE SUSPENSION STRING
TWIN CONDUCTORS

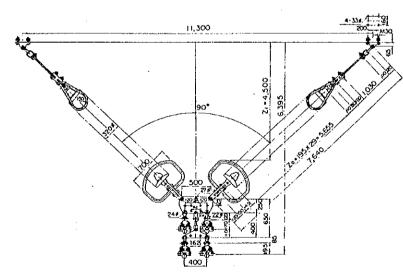
I_I

230 kV LINE



V TYPE SUSPENSION STRING 4 BUNDLE CONDUCTORS

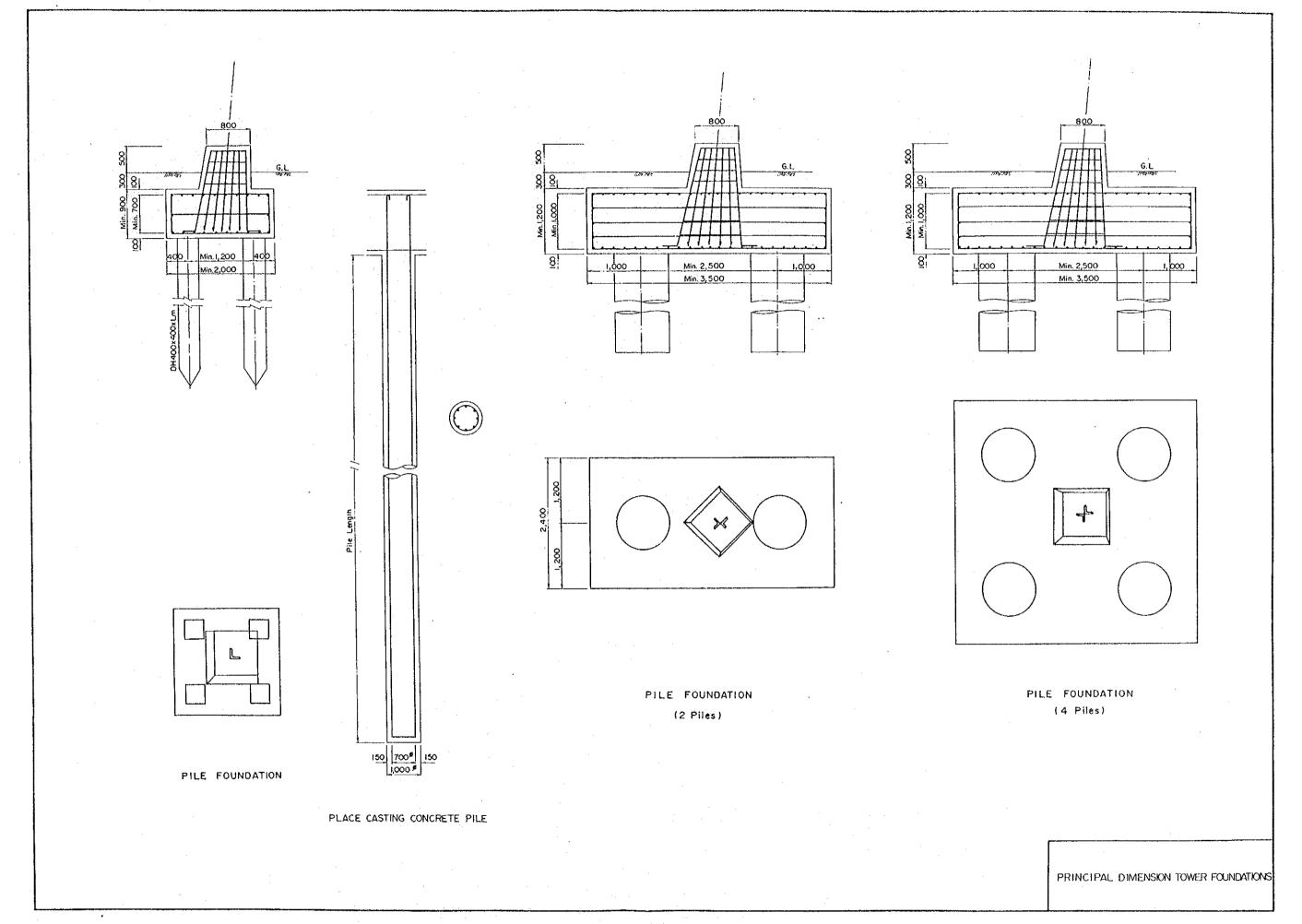
230 kV LINE

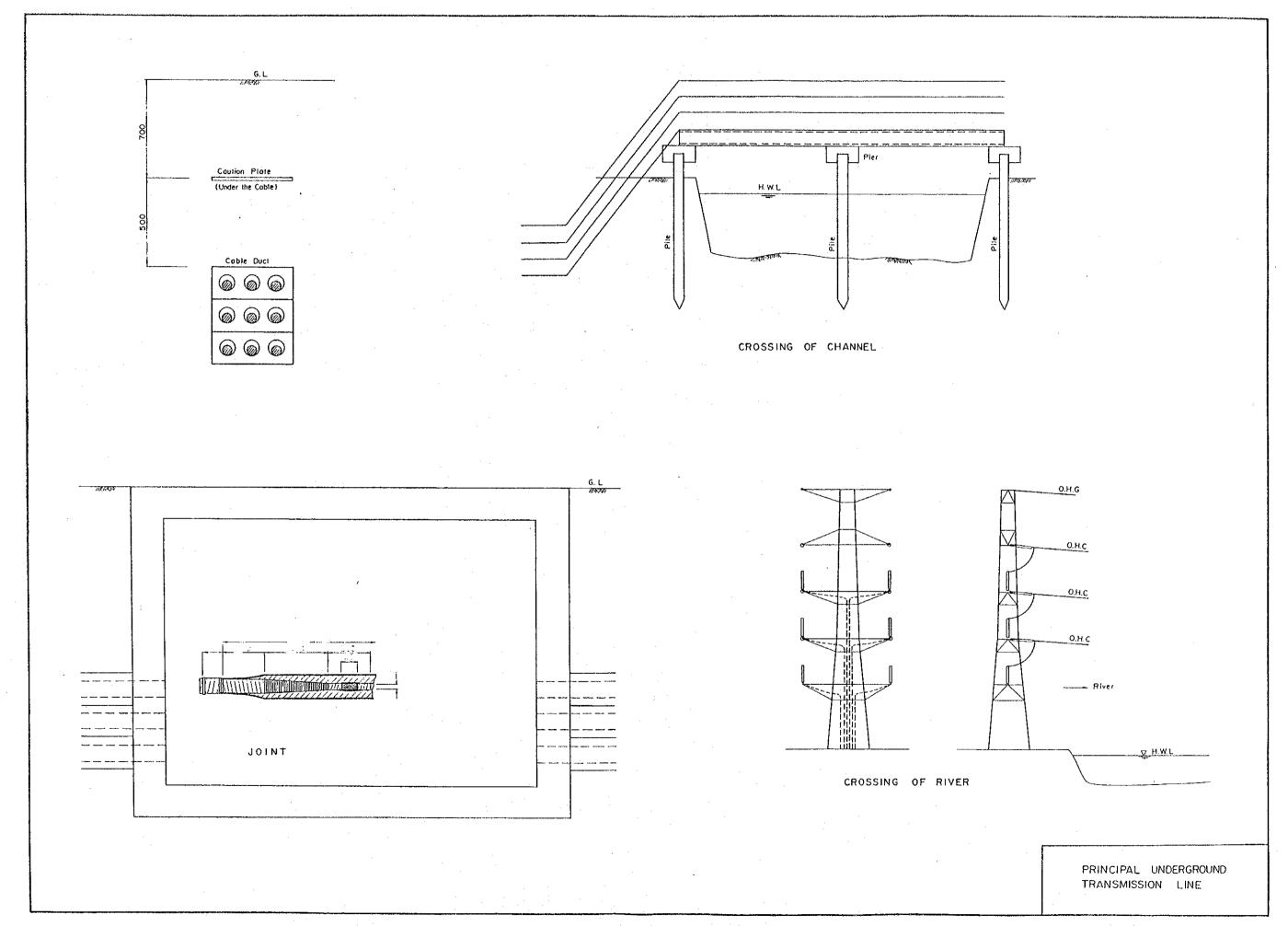


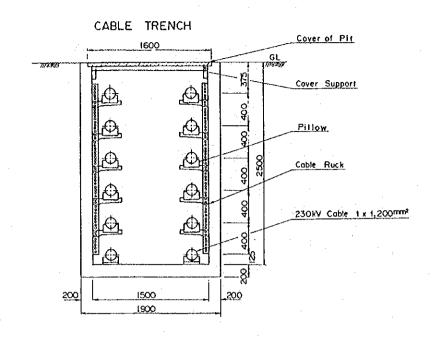
V TYPE SUSPENSION INSULATOR STRING 4 BUNDLE CONDUCTORS

500kV LINE

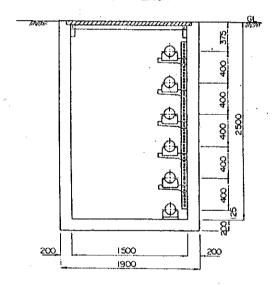
PRINCIPAL DIMENSION INSULATOR STRINGS



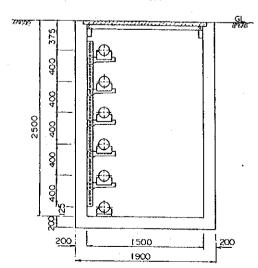




CABLE TRENCH



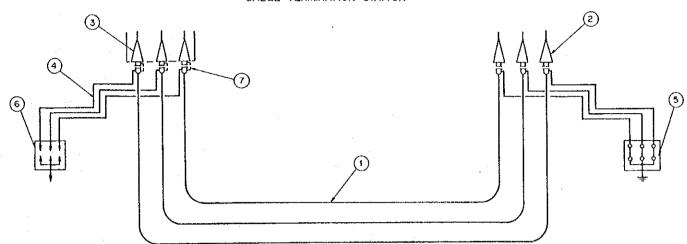
CABLE TRENCH



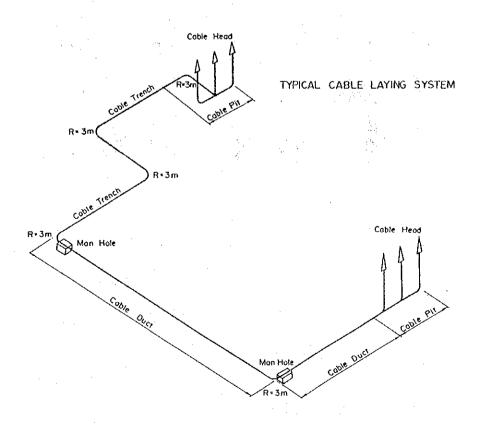
The Cover of Pit. (Width 1600mm, Length 1000mm, Thickness 14mm)

SCHEMATIC DIAGRAM OF BONDING SYSTEM

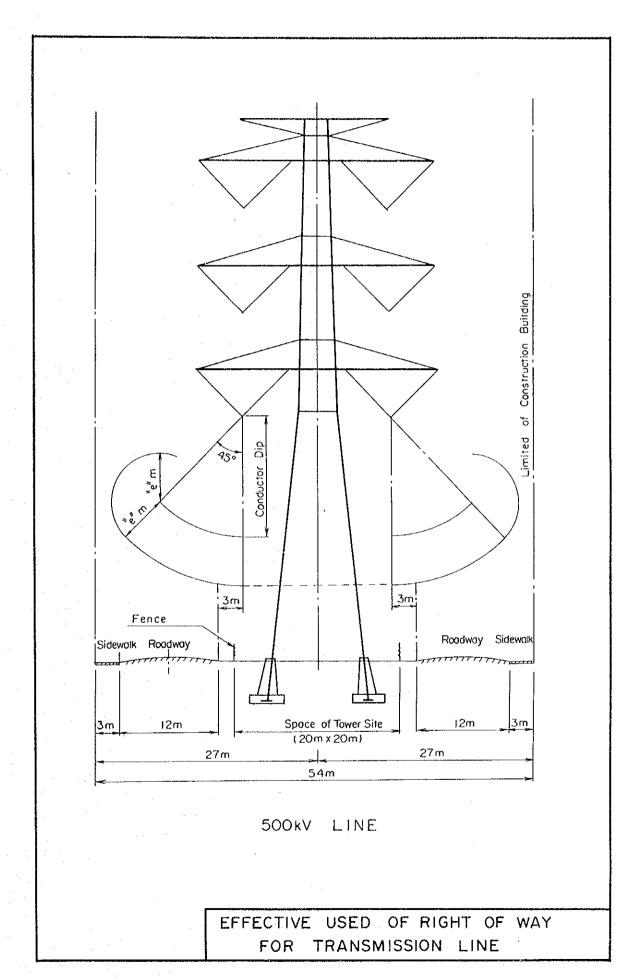
CABLE TERMINATION STATION

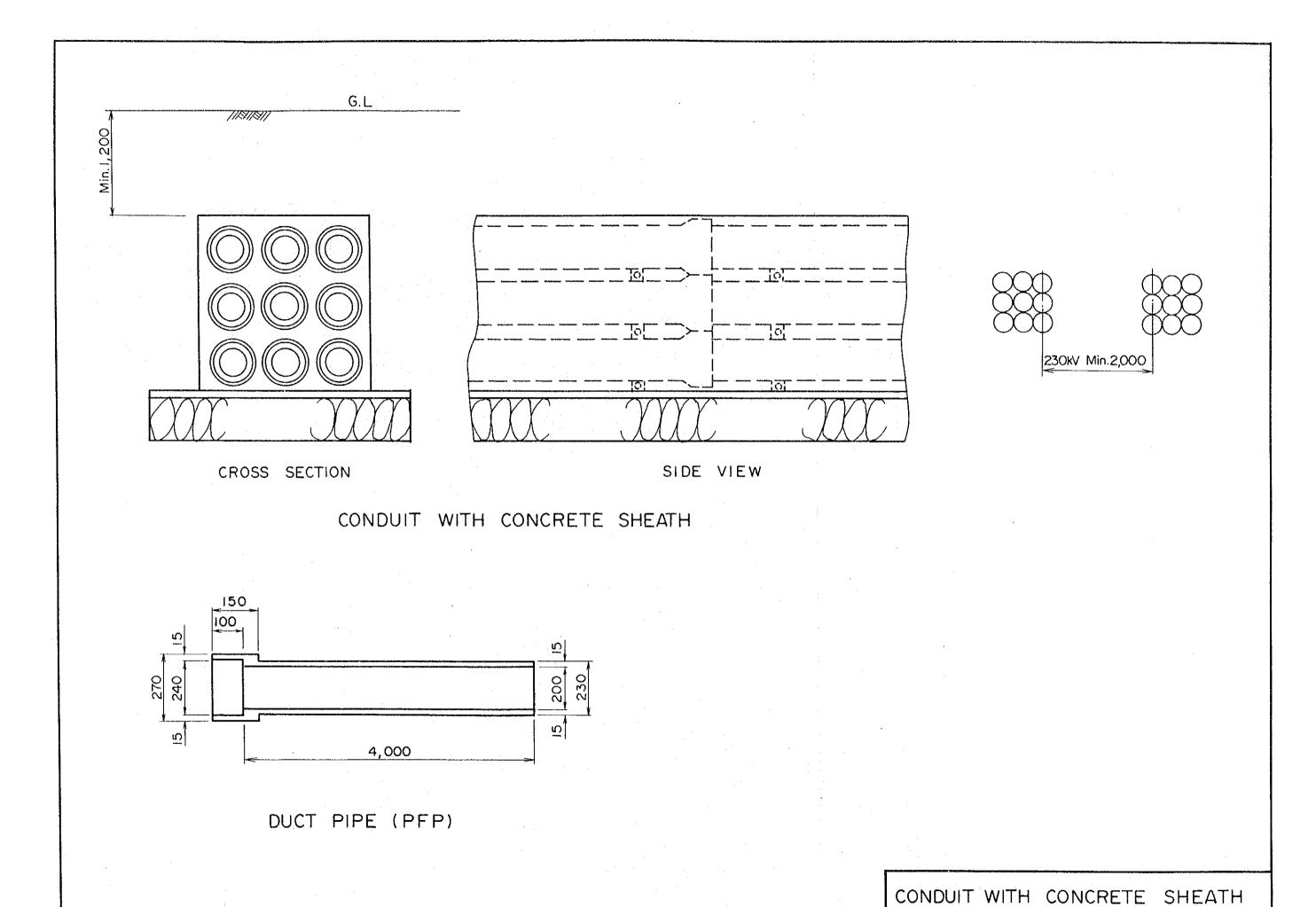


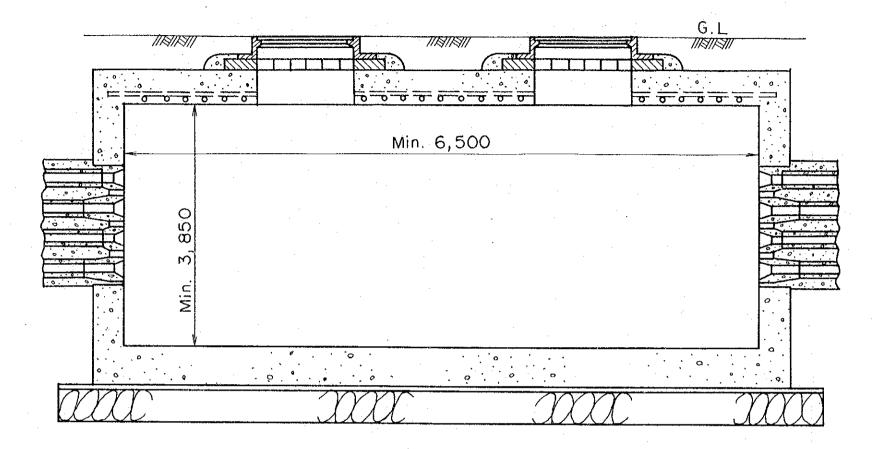
No	Description
1	Power Cable
2	Outdoor Termination
3	SFG Gas Immersed Termination
4	Single Bonding Wire
5	Solid Bond Link Box (3- Way)
6	Solid Bond Link Box with Arrester (3- Woy)
7	Arrestor for Insulating Flange



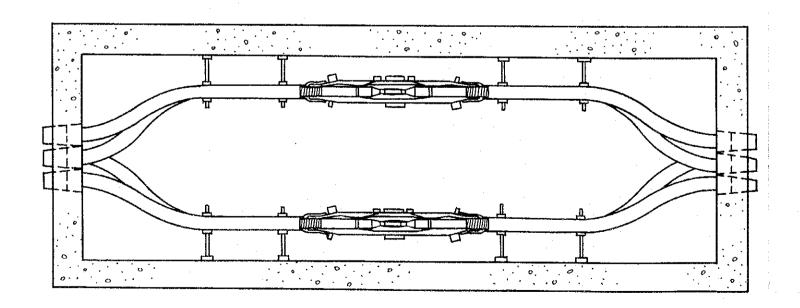
TYPICAL CABLE ARRANGMENT



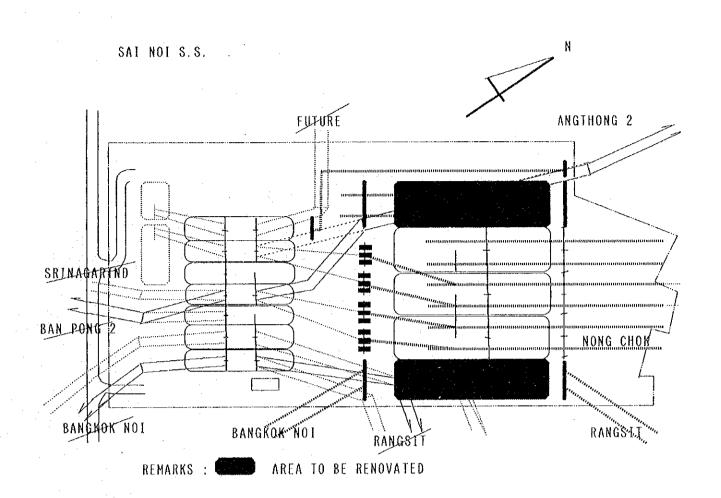




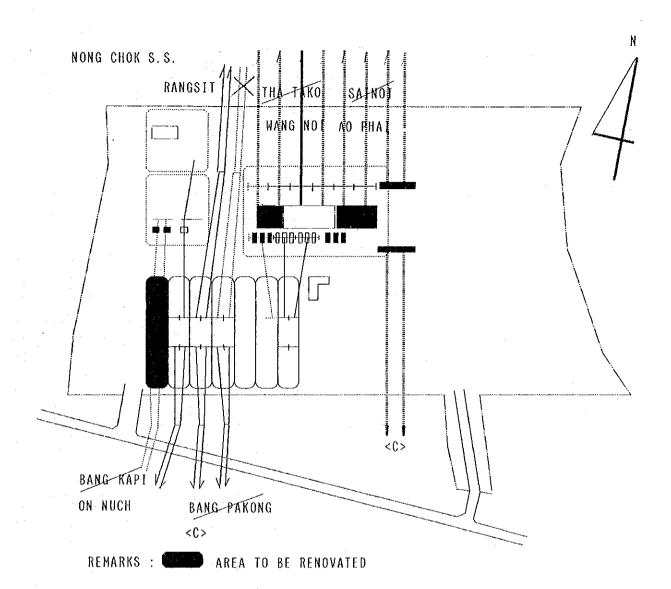
SIDE VIEW



PLAN VIEW

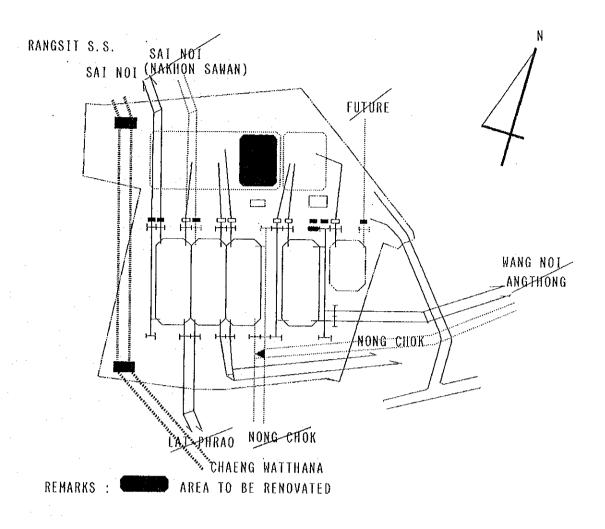


		230 kV			500 kV				
SAI NOI	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011	
Type		Conventional with Al-pipe				Conventional with Al-pipe			
Bus system	One an	d a ha	alf		One and a half				
No.of line No.of bank	8	4 2	2/0. 3/3	0 4	-	6 2	8/10 4/4	(14)	
Switchgear area(W x L)	246 124				230 216				



~	+1(TT)
-2(ON)	+2(SN)
+4(ON)	+2(AP)
-2(BP)	+2(<c>)</c>
~2(BP)	+2(AP)
+4 (BP)	

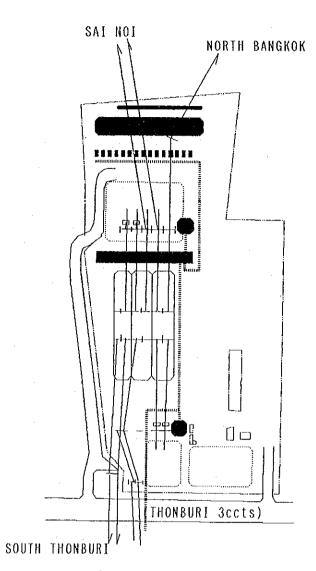
	230 kV				500 kV				
NONG CHOK	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011	
Туре		Conventional with Al-pipe				GIS			
Bus system	One an	id a ha	alf		One and a half				
No.of line No.of bank	8 1	8	10/10 2/3	10 3	1 2	4 2	6/6 3/4	10 4	
Switchgear area(W x L)	246 158				195 35				



+2(WN) -2(AN)

+2(WN)
-2(SN)

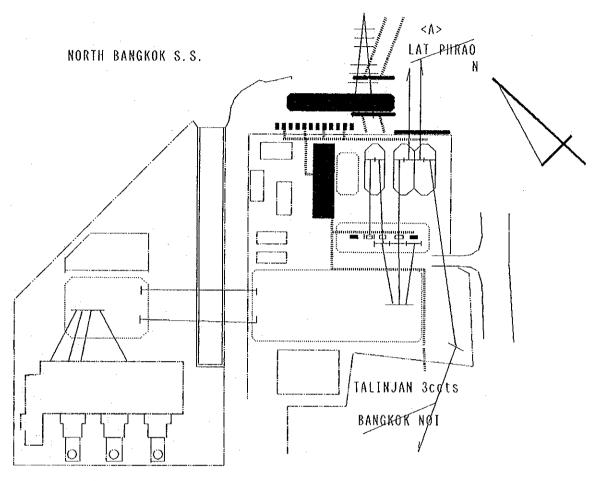
	230 kV				500 kV			
RANGSIT	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011
Туре	Conver with A				-		·	•
Bus system	One ar		alf		-			
No.of line No.of bank	8 6	8	8/8	8	-	~ .		-
NO. OF Dank		9	10/12	12	-	**	-	-
Switchgear area(W x L)	300 105				-			



REMARKS : AREA TO BE RENOVATED

+1(TB)

	230 kV				500 kV			
BANGKOK NOI	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011
Туре	Conven	tiona	<u>. </u>		-			
Bus system	One an	d a ha	alf		-			
No.of line No.of bank	6 4	6 7	3/5 8/8	6 8		- -	4 / 4 - / 4	4 5
Switchgear area(W x L)	88.8 81.4				-			

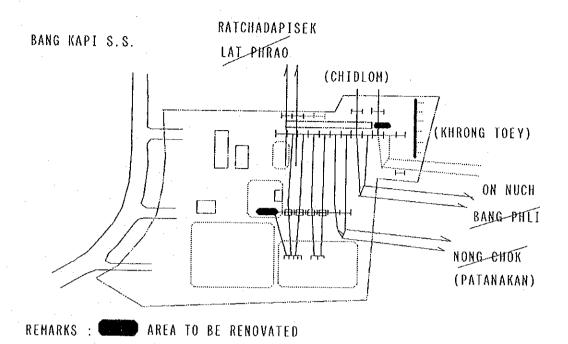


REMARKS: AREA TO BE RENOVATED

-1(BN) +2(BN) -2(LP) +2(RS) +2(LP) ---

+3(TL)

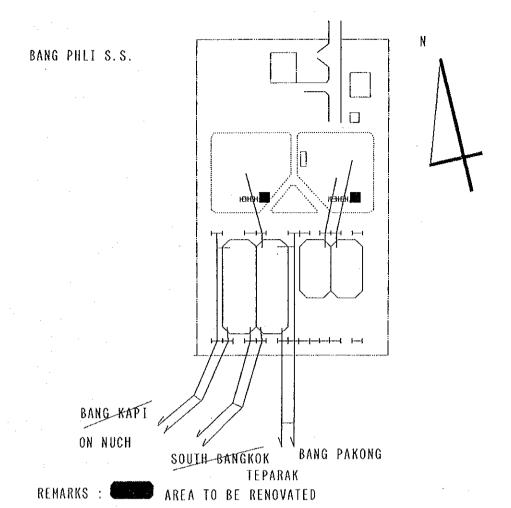
NORTH	230 kV			500 kV					
BANGKOK	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011	
Туре	Conver	tiona:	L		_				
Bus system	One ar	One and a half				_			
No.of line No.of bank	3 3	3 4	2/2 4/5	5 5	-	-	4/4 -/4	4	
Switchgear area(W x L)	103.6 54.2				-				



+3(KT) +2(KT)

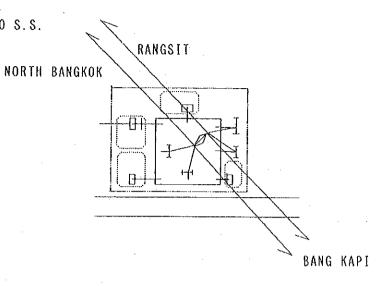
> +1(KT) +2(PT)

	230 kV				500 kV			
BANG KAPI	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011
Туре	GIS		<u> </u>		-		<u></u> ,	
Bus system	One an	ıd a ha	alf		_			
No.of line No.of bank	6 4	9 5	11/11 6/ 6	14 6	- -	-	-	<u></u>
Switchgear area(W x L)	177.6 101.5				-			



	230 kV				500 kV			
BANG PHLI	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011
Туре	Conver		L .		-			
Bus system	One an		31f		_			
No.of line No.of bank	б 4	6	6/6 6/6	6 6	-	- -	- -	- -
Switchgear area(W x L)	210 103				-			

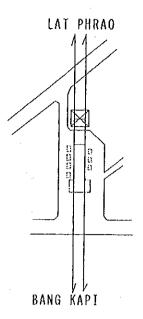
LAT PHRAO S.S.



+2(<A>) -2(<A>)

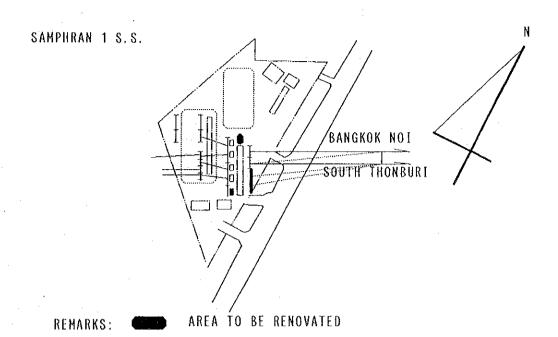
		230 kV			500 kV				
LAT PHRAO	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011	
Туре		Conventional with Al-pip				-			
Bus system	Ring				_				
No.of line No.of bank	4(4) 4(4)	4 4	4/4 4/4 (300MV	4 4 7A)	- -	- -		-	
Switchgear area(W x L)	85.5 44.9		(35011	,	<u></u>				

RATCHADAPHISEK S.S.



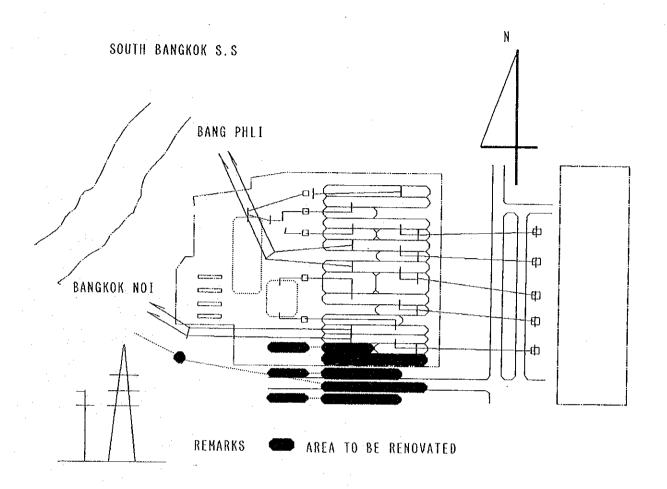


	230 kV				500 kV			
RATCHADA- PISEK	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011
Туре	GIS				-			
Bus system	One and a half				-			
No.of line No.of bank	-	4 3	4/4 5/5	4 6	-	-	-	-
Switchgear area(W x L)	65 10				-			



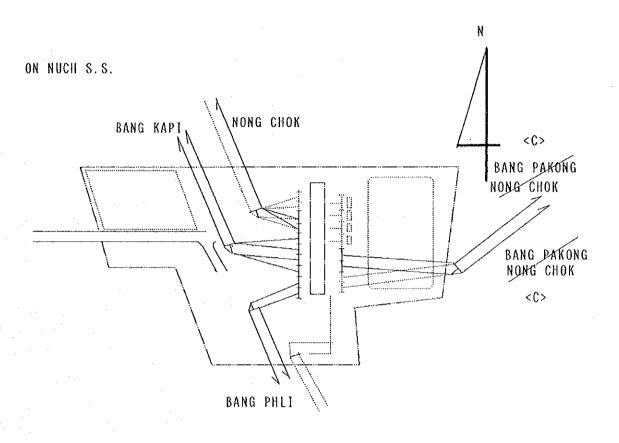
+1(BN) +1(STB)

	230 kV				500 kV			
SAMPHRAN 1	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011
Туре					-		<u> </u>	
Bus system					-			
No.of line No.of bank	2 4	2 5	2/4 5/5	6 5	- -	-	-	-
Switchgear area(W x L)	51 43.5				·			



+1(STB)

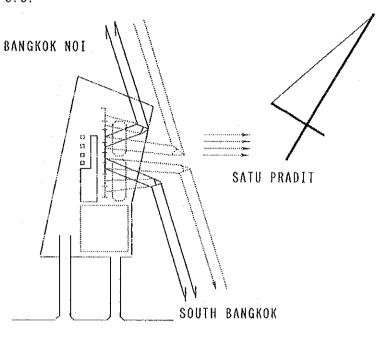
COUTH	230 kV				500 kV			
SOUTH BANGKOK	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011
Type	Conver				-			
Bus system	One ar	nd a ha	alf		· . -			
No.of line No.of bank	4 5	5 7	5/5 7/8	5 8	-	-	-	- -
Switchgear area(W x L)	280 103							



-2(NC) +4(NC) -2(BKP) -2 +4(BKP) -2(BP2) +4(<C>)

		230 kV			500 kV			
ON NUCH	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011
Туре	GIS		·		-			
Bus system	One ar	nd a ha	alf		-			
No.of line No.of bank	10 '-	10 3	12/12 3/4	14	- -		~ •	~ -
Switchgear area(W x L)	105 28			·				

SOUTH THONBURI S.S.

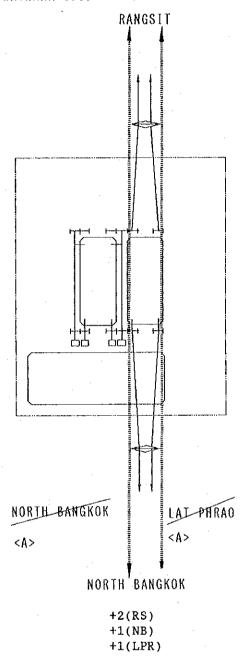


+3(STP) +1(SB)

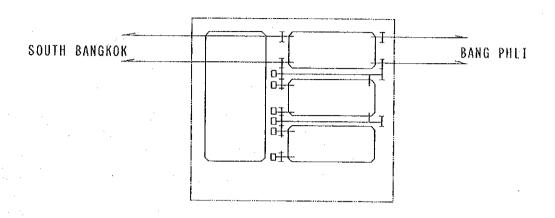
> +1(SP1) +1(STP)

SOUTH THONBURI	230 kV				500 kV			
	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011
Туре	GIS		·		<u>-</u>		<u></u>	
Bus system	One an	d a ha	alf					
No.of line No.of bank	2	8 4	8/9	10 4	- -	-	- -	- -
Switchgear area(W x L)	84 16				-			

CHAENG WATHANA S.S.

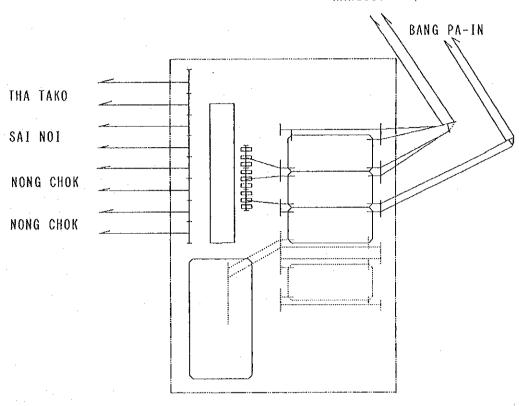


<u> </u>	T				I			
CHAENG		230 kV				500	kV	
WATHANA	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011
Type					-			···
Bus system				•	-			
No.of line No.of bank	- -	4 2	4/4 3/3	4 4	-	-	-	-
Switchgear area(W x L)	-				-		·	



+2(SB) +2(BPL)

230 kV				500 kV				
<u>TEPARAK</u>	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011
Type					-			
Bus system								
No.of line No.of bank	-	4 4	4/4 4/5	4 6	-	-	- -	-
Switchgear area(W x L)	-							

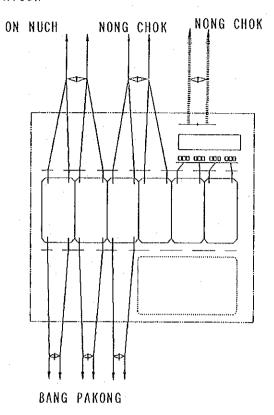


	230 kV			500 kV				
WANG NOI	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011
Туре								
Bus system								
No.of line No.of bank	-	4	4/6	6	-	-	-/8 -/3	8
Switchgear area(W x L)	-				-			

	230 kV			500 kV				
CHIDLOM	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011
Type							<u> </u>	
Bus system					. –			
No.of line No.of bank Switchgear area(W x L)	2(2) 2(2)	2 2	2/2 2/2	2 2	-	-		- -

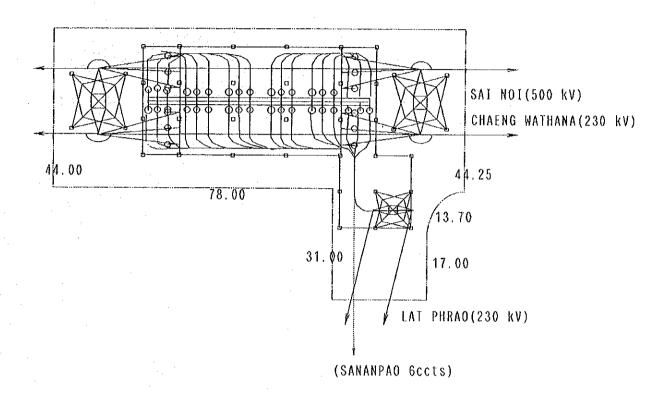
SATU PRADIT S.S.

	230 kV			500 kV				
SATU PRADIT	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011
Туре					-			
Bus system					_			
No.of line No.of bank	()	3 3	3/3 3/3	4	-	-	-	- -
Switchgear area(W x L)								



- +4(NC)
- +2(BP)
- +2(BP)
- +2(BP)
- +4(ON)

		230	kV			500	kV	**
<c></c>	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011
Туре					-			
Bus system					-			
No.of line No.of bank	-	- -	-/- -/-	14 ()	 	-	-/- -/-	2 4
Switchgear area(W x L)	-				-			



+2(NB)

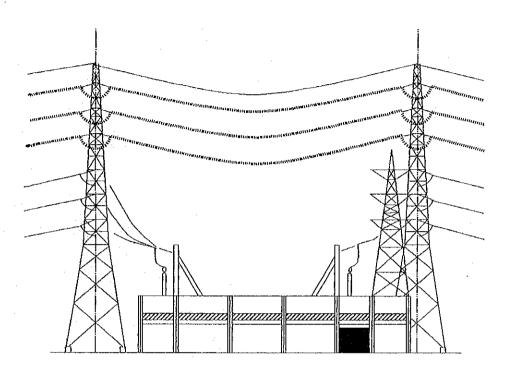
+2(CW)

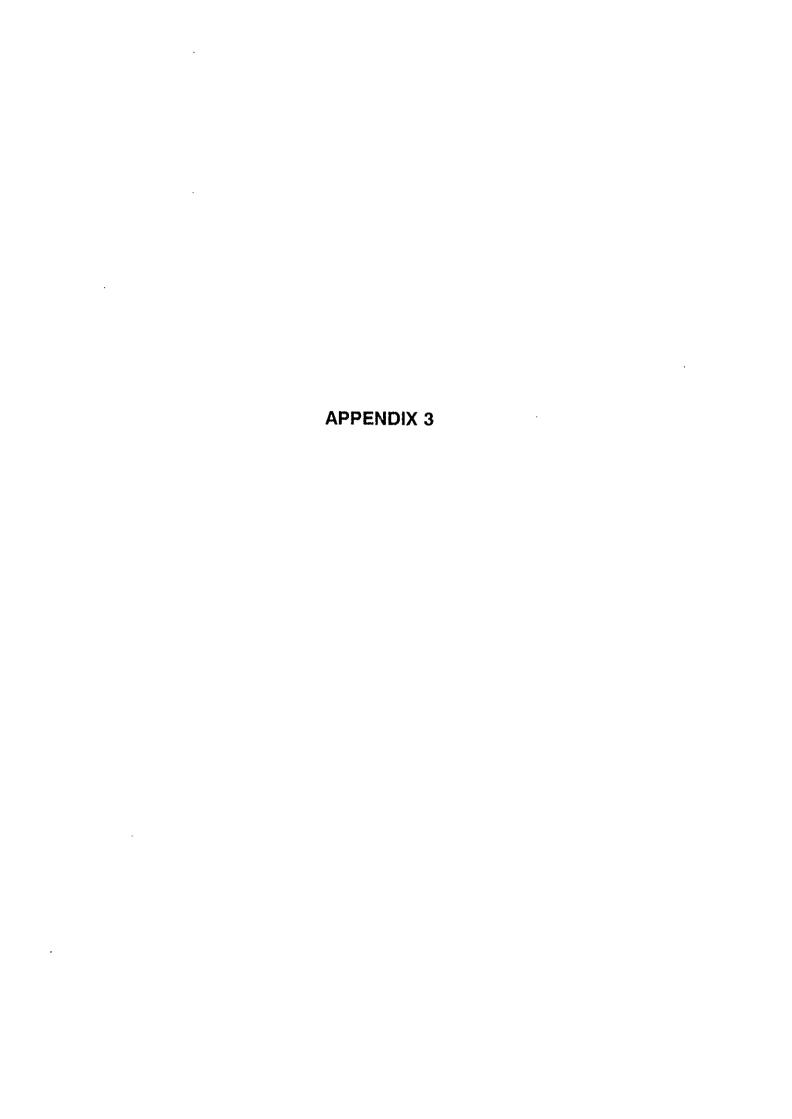
+2(LP)

+6(SA)

		230	kV			500	kV	
< <u>A></u>	Equip	1997	2001 /2006	2011	Equip	1997	2001 /2006	2011
Туре			•		-			
Bus system			÷		-			
No.of line No.of bank	- -	<u>-</u> -	12/12	12	-	- -	-	- -
Switchgear area(W x L)	-				-			

<A> SUBSTATION-FRONT VIEW





BREAK DOWN

OF

SUBSTATION COST

	• •					
	•					
	нона снок	1997			Thousand	
	-Bos System : -Voltage :	0 One and (230 kV	0		One #04 e 500 kV	1
	-Number of Day : -Number of Line:	0			4 3	
	-Number of Bank: -Type ;	Al-pipe CONV.	Al-pipa INV.	C18	λ1-pipe CONV.	GIB
1	1.Land Acquisition 2.Land Improvement			******	0 3213	0
	3. Foundation Work	. 200				315 3912
į	-Transformer -Tranch	1300	1300	1300	0	3912 0
1	4.Control Building	0	ŏ	o	0	0
1 :	5.Equipment -GIS	39363	39363	39363	483266	598304 482760
1	-Steel Structure -Misce, hardware	39363 500 200 37000	500 200	500	32026	1804 900
1	-Transformer -Circuit Breaker -Disconnect.Swit	37000	37000 0	37000	Ó	0
1	-Instrument Tran	. 0	0	_	67560 85320	
1	-Control & SERV.		1663		112840	112840
1 (5. Misce. Papilities			.~~~~~~		o
	Sub-total (FC)	35934	40863 35671	40883 35671	499519 420092	554279
1	(LC) 7.Miscs.Expense 8.Engineering & SV	2043	2013	2043	24815	30355
1 1	8.Engineering & SV 9.Contingennies 10.Import Duties	2860 4088	2860 4086	2060 4086	34956 49952	42516 60741
1 1	ll.Value Added Tex	3039	3039	4086 2555 3039	67352 39456	57121
•	Sub-total	14563			216541	237230
1	PC (1000 Baht)	55446 39677	55446 30388	55446	716060	844536 610617
	ıc	13769	16056	16058	463727 252333	
	TOTAL (1000 US #)	2218 1587 631	2010	2218		32795
	£C	631	642	642	10093	9361
		•				,
1	юна снок	2001			Thousand 1	Bant

NONG CHOK	2006			Thousand	Baht
	0				
-Bue System :				One and	a balf
-Voltage :	230 KV			ነበለ ሁለ	
-Number of Bay : -Number of Line:	0			0	
-Number of Line:	0			0	
-Kumber of Bank:	1			i	
	CONV.	TMA.		Al-pips CONV.	GIB
1.Land Acquisition 2.Land Improvement	0	0	0	0	*******
2.Land Improvement	. 0	Ó	0	0	
3. Foundation Work					
-Bas		200			2
-Transformer	1300	1300	1300	3900	391
-Tranch	0	0	0	Ð	
4.Control Building	. 0	0	ō	0	
	_	_			
5.Equipment	39363	39363	39363	121104	12110
-G18	-	~	0	_	
-Steel Structure	500	500	500	600	60
-Misca hardware	200	200	200	300	30
-Transformer	37000	37000	37000	111000	11100
-Circuit Breaker	· Q	o	_	0	-
~Disconnect.Swit	0	Q	-	Ō	-
-instrument Tran		0	7	0	
-Sies Structure -Sies Structure -Misca hardware -Transformer -Circuit Breaker -Disconnect.Swit -Instrument Tran -Control & SHEV. -Others			1563	9204	920
5.Misce.Facilities	0	0	0	0	
Sub-total	40863	40863	40863	125254	12525
(AC)	35934	35671	35671	113275 11979	11327
(LC)	4929	5192	5192	11979	1197
/.mage.bxpense	2043	2043	2043 2860	6263	626
o.augireering & BV	2860	2860	2860	8768	876
a.couringencies	4086	4086	4086	12525	1252
7.Misce.Expense 8.Enginsering & BV 9.Contingencies 10.Import Duties 11.Velue Added Tox	2555	2555	2555		
11.Vethe Wided LOR	9049 *****	3039	3039	9365	
Sub-total	14583	14583	14583	45441	4544
TOTAL (1000 Baht)	55446	35446	55446	170595	
FC	39677	39388 16058	39388	125017	
LC	15769	16058	16058	45678	4567
TOTAL (1000 US \$)	2218	2218	2218	6828	682
PC	1587 631	1576	1576		500 182
I.C	631	642	642	1827	182

	нона снок	2001			Thousand	Baht
	-Voltage -Number of Bay : -Number of Line: -Number of Bank: -Type	One and a 230 kV 1 2 0 A1-pipe CONV.		G18	One and 500 kV 0 2 1 Al-pipe CONV.	
,	1.Land Acquisition					
	2.Land Improvement		380	0 28		0
ī			200	20	•	·
i	-Bus	. 2506	2505	752	750	750
1		0	. 0	0	3900	3900
1	-Tranch	0	. 0	Q	O	0
1	4.Costrol Building	1 0	0	0		Ō
1	8 800 (000 000	37074	41039	0		0
í	5.Equipment -G18	3/0/4	41039	47318 39475		122904
î	-Steel Structure	2313	2921			
1	-Miscs, hardware					
1	"Transformer	0	. 0			
1	-Circuit Breaker			••	0	
1	-Disconnant Swit	4761	4761	-	0	-
ì	-Instrument Tran	7005	8613	7005	0	-
ī		7005	7005	1005	9204	9204
1		. 0	0	. 0	. 0	o
	Sub-total	39875	43925	48098	127554	127554
	(FC)	33340	35156			
_	(LC)	6535	8759			12762
1	7. Misce. Expense 8. Engineering & SV	1979	2177	2404	6378	6378
1	8, Engineering & SV	2791	3075			8929
i	9.Contingencies 10.Taport Duties	3985 4848	. 4393 5998	4810 4319		12753
ī	11.Value Added Tax	3110	3468		9000 9559	9000 9559
	Sub-total	16716		18566		
	One-cotal	19/10	13111	18500	46621	46621
	TOTAL (1000 Baht)	56591	63036	55666	174175	174175
	PC	36985	38972	49247	126736	126736
	I.C	19636	24064	17419	47439	47439
	TOTAL (1000 08 \$)	2264	2521	2667	6967	6957
	rc ,	1478	1559		5069	5059
	T.C	785	963	697	1898	1098
		+				

	ноно снок	2011			Thousand	Baht
	-Voltage : -Number of Bay : -Number of Line: -Number of Bank: -Type :	One and a 230 kV 0 0 Al-pipe CONV.			One and a 500 kV 2 4 0 A1-pipe CONV.	
1	1.Land Acquisition 2.Land Improvement 3.Foundation Work		0 0	0 0	0 1607	158
i	-Bus	0	0	0	6520	1956
ï	-Transformer	ŏ	ŏ	ŏ	0320	1330
1	-Tranch	ō	ŏ	ŏ	ŏ	ŏ
1	4.Control Building	. 0	0.	٥	ō	ō
1		~	-	0	- '	Ō
:	5.Equipment	0	0	Q	241633	299902
1	-GIS -Steel Structure			0		241380
î	-Misce. hardware		0	0	6013	902
î	-Transformer	·	0	0	32500 0	1200
ī	-Circuit Breaker		ő	- 0	70260	
ī	-Disconnect.Swit		ŏ	-	33780	
1	-Instrument Trac	0	ŏ	-	42660	_
1	-Control & SERV.	Q	0	0	56420	56420
1	Others 6.Hisca.Facilities	0	0	. 0	.0	0
	Sub-total	0	0	0	249760	302016
	(FC)	ŏ	ŏ	ŏ	210046	
•	(rc)	ō	ŏ	ō	39714	24252
	7. Hiace . Expense	Ō	Ò	0	12408	15093
1	8.Engineering # SV		0	0	17483	21141
ļ	9.Contingencies	. 0	0	0	24976	30202
1	10. Import Duties	0	0	o	33676	28779
*	11.Value Added Tex	0	0	0	19729	23145
	Sub-total	0	0	0	109272	118360
	TOTAL (1000 Baht)	0	0	0	358032	420376
	FC	0	ŏ	ŏ	231863	305752
	rc	0	Ò	Ò	126169	114624
	#0#41 (1000 or -:	·			~~~~~	******
	TOTAL (1000 US 8)	0	0	o o	14321	16815
	ıc	0	0	0	9275	12230
				v	5047	4585

	BAT NOT				Thousand	Baht
	-Bus System : -Voltage : -Number of Bay : -Number of Line: -Number of Bank : -Type :				0 Ona and 500 kV	
	-Number of Lines	0			6	
	-Number of Bank: -Type :	Al-pipe CONV.	Al-pipe INV.	GIB	Al-pipa CONV.	G18
ı	1.Lend Acquisition	0	0	0	0	0
L	1.Lend Acquisition 2.Lend Improvement 3.Foundation Work -Bus -Tranch 4.Control Building 5.Equipment -GIS -Stel Structure -Hisce hardware -Transformer -Circuit Breaker -Disconsect. Bwit -Instrument Trans -Cotrol & SKRY, -Others 6.Misce-Facilities	. 0	. 0	0	4016	. 394
ī	-Bus	400	400	400	16300	4890
ı	-Transformer	2600	2500	2500	7800	7800
	-Trench	0	. 0	ŏ	.0	0
	4. Concros Burrosny	_ "		. 6		ő
ī	5.Equipment	78776	78726	78726	844691	989563
ŀ	-GIS					603450
	-Steel Structure	1000	1000	1000	15033	2255
i	-Transformer	74000	74000	74000	222000	222000
Ŀ	-Circuit Breaker	Ō	Ö		175650	_
ı	-Disconnect.Swit	0	ō	-	84450	-
	-Instrument Tran	0		3334	106650	150450
	-Others	3346	3320	9310	103408	139430
i	6.Misce.Facilities	- 0	0	. 0	0	. 0
	Sub-total	81776	81776	R1776	872607	1002647
	(FC)	71667	71342	71342	750149	918945
	(LC)	9859	10384	10384	122458	83702
Ļ	7.Miaca.Expense	1086	4086	4086	43430	50113
	B.Englowering & SV	8112	9/41	5/21	61084	100258
i	10. Igoost Duties	5110	5110	5110	100751	88333
Ĺ	Sub-total (FC) (LC) 7.Misca.Expense 8.Engioeering & SV 9.Contingencies 10.Import Duties 11.Value Added Tax	6078	6078	6078	57855	76342
	Sub-total	29168	29168	29168	360379	385238
	TOTAL (1000 Bant)	110894	110894	110894	1232986	1387885
	PC	79354	78777	78777	827976	1012148
	TOTAL (1000 Bant) PC LC	31540	32117	32117	405010	375737
	TOTAL (1000 US \$) PC LC	4436	4436	4436	49319	55515
	PC	3174	3151	3151	33119	40486

	SAI HOT	2006			Thousand	Baht
	-Bue System : -Yoltage : -Yoltage : -Number of Bay : -Humber of Line: -Number of Bank; -Type :	0 0	Al-pipe		One and a 500 kV 0 2 0 Al-pipe CONV.	
1	1.Land Acquisition		0	0	0	0
1	2.Land Improvement 3.Youndation Work	. 0	0	Ó	ō	Ō
1	-Bu∎	0	0	0	500	500
;	-Transformer -Transh	0	0	0	0	0
î	4. Control Building		ŏ	ŏ	ŏ	ň
ī		_		ō	-	ŏ
ļ	5.Equipment	0	0	ō	1000	1800
1	-G18 -Steel Structure		٠ ،	0	1200	1200
î	-Bisce, hardware		ő	Ů	600	600
i	-Transformer	ŏ	ŏ	ŏ	ő	000
1	-Circuit Breakex		0	-	Ó	
1	-Disconnect.Swit		Đ	-	ō	-
1	-Instrument Tres		Q O	- 0	0	- 0
î	-Others 6.Misca.Facilities	•	0	0	0	0
•						
	Sub-total	Ó	0	0	2300	2300
	(FC) (LC)	0	0	0	1517 783	1517 783
1	7. Misca. Expense	ŏ	ŏ	0	115	115
	8.Engineering & SV	r ō	ō	ŏ	161	161
1	9.Contingencies	0	0	0	230	230
	10.Import Duties	. 0	0	0	480	480
1	11.Value Added Tex	. 0	0	0	195	195
	Sub-total	0	0	0	1181	1181
	TOTAL (1000 Baht)	0	0	0	3481	3481
	PC	0	0	0	1719	1719
	LC	0	0	0	1762	1762
	TOTAL (1000 US \$)	0	6	0	139	139
	YC	Õ	Ō	Ô	69	69
	ıc	0	0	0	70	70

				*****			_	8
		0	. 0					-
	-Bue System :	One and a	i half		One end	e helf		-
	-Voltage :	230 FA						-
	-Kumber of Bay : -Kumber of Line: -Kumber of Benk: -Type	0	•		14			-
	~Number of Line:	. 0			2			_
	-Number of Benk:	1	·		2			-
	-Type :	Al-pipe CONV.	Al-pips INV.	CIS	Al-pips CONV.	GI8		-

÷	1.Land Acquisition 2.Land Improvement		v		2212	315		1 1
ì	3. Foundation Work		U		3213	313		1 2
î		200	200	200	12040	2012		13
î	~Transformer	1300	200 1300	1300	13040 7800	3912 7800		i
ī	Trensformer Trench 4.Control Buildin 5.Equipment GIB	1300	1.000		0	ó		1
î	4 Control Building	a ă	ñ	ň	ň	ň		1 4
ī			~ ~	ő	_ `	ŏ		î
i	S. Rou (coent	19763	39363	40163	723674	839012		1 5
ĩ	~G18		-	0,110	-	482760		î
ī	asteal Structure	a 500	500	500	12026	1804 1200 222000		î
ĩ	-Misce, hardware	200	200	200	65000	1200		î
1	-Transformer	37000	37000	37000	222000	222000		1 1 1
ī	"Circuit Breake	T . 0	0.000	2.000	140520			1
1	-Disconnect Swi	, 0	ň	_	62560	-		i
î	-GIB -Steel Structur- -Misce hardwar -Transformer -Circuit Breake -Disconnect.Swi -Instrument Tra -Control & SERV -Othere	n Ö	ŏ		85320	131248		î
i	-Control & BKAV	. 1663	1663	1663	131248	131248		í
1	-Othere			**				1
1	b.Miscs.Facilitie	a . 0	0	0	U	0		16
	Sub-total	40863	40863	40863	747727	851039	•	-
	(PC)	35934	35671	35671	645176	779563		
	(LC)	4929	5192	5192	102601	71476		
1	7.Misce.Expense	2043	2043	2043	37226	42536		1 7
1	5. Engineering 6 8	V 2860	2850	2860	52341	59573		1.8
1	9.Contingencias	4086	4086	4086	74773	85104		1 9
1	10.Import Duties	2555	2555	2955	83912	73769		1 i
1	Sub-total (FC) (LC) 7.Nisca.Expense 8.Engineering & 6' 9.Contingenciae 10.Emport Duties 11.Valum Added Te	x 3039	3039	3039	57990	64714		1 9
	Sub-totel	14503	14583	14503	306242	325696		•
	TOTAL (1000 Baht) PC LC	55446 39677 15769	55446 39388 16058	55446 39388 16058	1053969 712044 341925	1176735 858722 318013		T
								7
		2218	2718	2218	47159	47069		
		2218 1587	2218 1576	2218 1576	42159 28402	47069 34349		
	TOTAL (1000 US \$) FC EC	2218 1587 631	2718 1576 647	2218 1576 642	42159 28462 13677	47069 34349 12721		_
	TOTAL (1000 US 9) FC LC	2218 1587 631	2218 1576 647	2218 1576 642	42159 28462 13677	47069 34349 12721		
	TOTAL (1000 US 9) FC LC	2218 1587 631	2218 1576 647	2218 1576 642	42159 28462 13677	47069 34349 12721		
	TOTAL (1000 US 9) FC LC	2218 1587 631	2218 1576 647	2218 1576 642	42159 28402 13677	47069 34349 12721		
	TOTAL (1000 US 9) FC LC	2218 1587 831	2218 1576 647	2218 1576 642	42159 28402 13677	47069 34349 12721	•	
	TOTAL (1000 US 9) FC LC	2218 1587 631	2218 1576 642	2218 1576 642	42159 28402 13677	47069 34349 12721		
	TOTAL (1000 US 9) FC LC	2218 1587 631	2218 1576 642	2218 1576 642	42159 28402 13677	47069 34349 12721	•	
	TOTAL (1000 US 9) FC LC	2218 1587 631	2218 1576 642	2218 1576 642	42159 28482 13677	47069 34349 12721	•	
	TOTAL (1000 US 9) FC LC	2218 1507 631	2218 1576 642	2218 1576 642	42159 28462 13677	47069 34349 12721		
	TOTAL (1000 US 9) FC LC	2218 1587 531	2218 1576 647	2218 1576 642	42159 28402 13677	47069 34349 12721	•	
	TOTAL (1000 US 9) FC LC	2218 1587 631	2218 1576 642	2218 1576 642	42159 28402 13677	47069 34349 12721	•	
	TOTAL (1000 US 9) FC LC	2218 1587 631	2218 1576 642	2218 1576 642	42159 28402 13677	47069 34349 12721		
	TOTAL (1000 US 9) FC LC	2218 1587 631	2218 1576 642	2218 1576 642	42159 28462 13677	47069 34349 12721		
•	TOTAL (1000 US 9) FC LC	2218 1587 631	2218 1576 642	2218 1576 642	42159 28402 13677	47069 34349 12721		
	TOTAL (1000 US 9) FC LC	2218 1587 631	2218 1576 642	2218 1576 642	42159 28402 13677	47069 94349 12721		
	TOTAL (1000 US 9) FC LC	2218 1587 631	2218 1576 642	2218 1576 642	42159 28462 13677	47069 34349 12721		
	TOTAL (1000 US 9) FC LC	2218 1587 631	2218 1576 642	2218 1576 642	42159 28462 13677	47069 94349 12721	3 -	
-	TOTAL (1000 US 9) FC LC	2218 1587 631	2218 1576 642	2218 1576 642	42159 28462 13677	47069 94349 12721		
	TOTAL (1000 US 9) FC LC	2218 1587 631	2218 1576 642	2218 1576 642	42159 28482 13677	47069 94349 12721		
	TOTAL (1000 US 9) FC LC	2218 1587 631	2218 1576 642	2218 1576 642	42159 28462 13677	47069 94349 12721		

			SAI ROI	2011					
٥	0			0	. 0		. 0		0
1 6	WELL		-Bus System :	One and	g trent		One and	e pert	
.,			-voltage	230 KV			200 KA		
3			~NUMBER OF MAY :	ņ			ŭ		
÷			-number of Cinet	Ų			v		
•	278		-Number of Benk:	Madea	kl. olos	CTE	41.565	~16	
			-Type .	COXV.	INV.	010	CONV.	010	
0	0	1	1.Land Acquisition	0	0	0	0		0
13	315	1	2.Land Improvement	: 0	0	o	0		0
		1	3. Foundation Work						
10	3912	1	~Bue	200	200	200	0		0
0	7800	1	-Transformer	1300	1300	1300	0		0
ō	. 0	1	~Treach	0	0	0	0		0
0	o o	1	4.Control Building	0	0	O	0		0
	0	1		-		. 0	-		0
4	#39012	1	5.Equipment	39353	39363	39363	0		0
	482760	1	~G18			0	-		0
•	1804	1	-Steel Structure	500	500	500	o		0
10	1200	1	"Hisco, hardware	. 200	200	200	0		0
	222000	1	Transformer	37000	37000	37000	Q.		0
	-	1	-Circuit Breaker	. 0	0	-	0	-	
		,	-Disconnect.Swit	. 0	Ď	-	Ď	-	
	121744		-Instrument Trac	1663	1467		ž	•	_
ų	131210	1	-Control & mary.	. 1003	1003	1003	U		v
0	0	í	6.Miscs.Facilities	. 0	0	0	0		0
7	851039		Sub-total	40863	40863	40863	0		ō
6	779563		(PC)	35934	35671	35671	Ò		Đ
1	71476		(LC)	4929	5192	5192	ō		ō
6	42536	1	7.Misos.Expense	2043	2043	2043	0		0
1	59573	1	B. Engineering & Sy	2850	2860	2060	0		0
3	85104	1	9.Contingencies	4086	4086	4086	0		Q
2	73769	1	10.Import Duties	2555	2555	2555	0		0
0	64714	1	il.Velue Added Tex	3039	3039	3039	0		0
2	325696		SAI NOI -Bus System : -Voitags : -Number of Bay : -Number of Bay : -Number of Benk: -Type : 1. Land Acquisition 2. Land Improvement 3. Foundation Work -Bus -Transformer -Transformer -Transformer -GIS -Steel Structure -Nisca, hordware -Circuit Breaker -Disconnent. Swit -Instrument Transformer -Circuit Breaker -C	14583	14583	14583	0		0
9	1175735		TOTAL (1000 Baht) FC LC TOTAL (1000 US \$) FC LC	55446	55446	55446	0		0
	270012		YC .	39577	39386	39398	0		0
· • • •	318013		LC	15769	16058	16058			
9	47069		TOTAL (1000 US \$)	2218	2218	2216	0		0
12	34349		PC	15B7	1576	1576	0		G
17	12721		LC	631	642	642	0		0

	NORTH BANGKOK	1997			Thousand	
	-Bus System : -Voltage : -Number of Bay ; -Number of Line: -Mumber of Bank:	One and	o a half		One and a	
	-Voltage :	230 kV			500 kV	
	-Number of Bay :	0			0	
	-Number of Line:	Ď			ŏ	
	-Number of Bank:	. 1		•	0	
	-туре :	CONV.	Al-pips	GI8	Ai-pipe CONV.	GIS
	1.Land Acquisition 2.Land Improvement	ı ()	0	0	0	
	2.Land Improvement	. 0	0	Ó	Ó	
	3. Foundation Work					
	-Bus	200	200	200	o o	
	-Transformer -Tranch	1300	1300	1300	0	
		. 0	. 0	0	0	
	4.Control Building	0	0	٥	0	
		-	79363	0		
	5.Equipment	39363	39363	39363	0	
	-G18	-	-	0		
	-Steel Structure	500	500	500		
	-Miscs, hardware	200	200	200		
	-Hiscs hardward *Transformer -Circuit Brasker -Disconneot Swit -Instrument Tran -Control & SSRV.	37000	37000	37000		
ľ	-Circuit Brasker	. 0	0	_	0	
	-Disconnect Swit	: 0	0	_	0	
	- Instrument Tran	. 0	0	-	D.	_
٠	-Control & 88RV.	. 1663	1663	1663	0	
	-Uthers				_	
	6. Misca. Facilities	0	0	0	0	
	Sub-total	40863	40863 35671	40853	0	
	/ PC)	35934	35671	35671	Õ	
	(LC)	4929	5192 2043	5192	Ò	
	(FC) (LC) 7.Hisca.Expansa	2043	2043	2043	0	
	8.Engineering & Si	7 2860	2860	2840		
	9.Contingencies	4086	4086	4086		
	10.Import Duties	2555	2555	2555		
	(LC) 7.Misce.Expense 8.Engineering L Si 9.Contingencies 10.Import Duties 11.Value Added Tax	3039	4086 2555 3039	3039		
	Sub-total		14583			
	TOTAL (1000 Beht)	. 55446	55446	55446	0	
	IC (2000)	39677	39388	39388		
	1.0	15769	3938 8 16058	16038	0	
	TOTAL (1000 US 0) FC EC	2218	2218	2218		
	YC `	1587	1576	1576		
	LC	631	642	642	ō	
	LC	631	642	642		
	NORTH BANGKOK	2001			Thousand	Baht

	NORTH BANGKOK	2008			Thousand	Beht
	-Voltage : -Number of Bay : -Number of Line: -Number of Bank: -Type	One and I 230 kV 0 0 1 Al-pips CONV.			One and o 500 kV 0 0 4 Al-pipe CONV.	
1 1 1	2.Land Improvement		0	0	0	0
1	3.Foundation Work "Bus "Transformer "Trench	200 1300 0	1300	1300	15600 0	15600 0
1 1 1	4.Control Building 5.Equipment -GIS	0 39363	0 39363	0	484416	0
1 1 1	-Steel Structure -Hisce, hardware -Transformer -Circuit Breaker	200 37000	500 200 37000 0	200 37000		
1111	-Disconnect.Swit -Instrument Tran -Control & SERV. -Others	. 0	ō		0 0 36016	
	6. Nisce. Facilities	0	0	¢	0	0
Į	Sub-total (PC) (LC) 7.Misca.Expense 8.Engineering & 8V	40863 35934 4929 2043	40863 35671 5192 2043 2860	40863 35671 5192 2043 2860		501015 453102 47914 25051 35071
1	9.Contingencies 10.Import Duties 11.Value Added Tax	4086 2555	4086	4086 255	30102 34080	50102 34080 37457
	Sub-total	14583	14503	14583	181761	191761
	TOTAL (1000 Babt) PC LC	55446 39677 15769	55446 39388 16058	39388		582777 500073 182704
	TOTAL (1000 US #) PC LC	2218 1587 631	2218 1576 642			27311 20003 7308

	CH BYNCKO					Thousand		NO
			n			'n	1	
÷Bus	System	•				One and	a half	+B
						500 k¥		~¥
-Mir	sher of B	av .	74.0			4		-×
Niti	abar of L	inet	Ö			- 7		-N
- Kus	monr of B	enk:	0			ń		~ห์
-Ty	>		Al-pipe CONV.	Al-pipe	GIS	Al-pipe CONV.	GIS	-7
. 1 .	and Boom!	*1*1				0	0	1 1.
2 6	na Acqui	*1010	n 0 E 0	v		3213	315	
7.0	oundation	A direction in	. ,	v		3213	312	i 3.
3.P		MOTE	•	. 0		12040	2012	1 3.
	tenetore		0	. ,	Ŏ	13010	3912	1
· [;	rench	•••				0	0	;
4 6	ontrol Bu	41464	2 0	ŏ		ő	ő	i 4
	MICKUL DU	4 4 0 4 3 1 5	, ,			~ "	4875	į ·
	nipment		- 0	- 0			598604	i 5.
	II S					403200		; ··
	iteel Str		a 0	- 0	×	17026	1804	i
	liece. ha			ő		14040	1200	•
	ranerore			. 0	×	65000	1100	î
	Circuit A				_ "	140520		î
	Disconnec				_	67560	_	î
	Costruses	t		ŏ		85320		î
	Control 6	anen.		ŏ		112840		î.
)there	GMH V	• •	•		111070	112040	î
6 K	see Feel	11+1-	• 0	0	. 0		0	î 6.
							~- 	
B ₁	ib-total		0	0			607706	
	(FC	١.	ŏ	ň	ŏ	420092	554579	
	ìič		ŏ	ň	Ō	79427	53177	
7.80	BOR. KYDA	, 1988	0 0 0 0 0 0	ň	ŏ	24815	554529 53177 30370 42539 60771	1 7.
A.R	Gireario	a 6 81	v ň	ñ	ŏ	34966	47539	1 8.
9.0	mringenc	iae	ň	0	ň	49052	60771	1 9.
10.	mport Du	ties	ŏ	ň	ŏ	67352	57209	1 10
11.	ABINE WOR	60 191		U	· ŏ	39456	57209 46523	i 11
8	b-total		0				237412	· · ·
TOT	L (1000 :	Baht)	0	0	0	716060	845118 610892 234226	ro
1	7C			Q	0	463727	610892	
1	.c	:	o o		~~~~~~~			
	L (1000	UE 9)		0	0	28642	33805 24436 9367	10
	rc .		U	0	. 0	18549	24436	
	LC.			0	_ ^	10007	0165	

MORTE BANG	KUK	4011			Thesecod Baht
		0	٥		0
-Bus Syste	a ;	One and a	half		One and a hal:
~Voltage	:	230 kV			500 kV
-Number of	Bry :	3			0
-various, or	rithe:				0
-Number of	Bank:	0			0
-Type	:	Al-pipe	Al-pips		Al-pipa GIS
4.5		CONV.			CONV.
1.Land Acq 2.Land Imp	elsítio	n 0	0	0	0
2.Land Isra	COVERNO	t 591	759	56	0
3. Foundati	on Work				
-Bus		5013	5013	1504	0
-Transfo	LEGI.	0			Ō
-Trench		ò	ò	0	Ò
4.Control		0	0	ō	0
		-	-	0	-
5.Equipmen	t	74149	82078	94437	0
-G18		_	_	76950	-
-Steel B	tructure	4625	5841	875	0
-Misce.	hardward	6384	13098	600	0
-Transfo	THE T	0	٥	0	0
-Circuit	Braska	. 2238ŏ	22380		0
-Discons	act.Swil	9522	9522	-	Q
-Instrum	ent Trac	17226	17226	٠	0
-Control	& SERV	. 14011	14011	14011	0
-Others					
6,Migce.Fa	cilities	. 0	0	Ö	0
Sub-tota		79753	87850	95997	ø
(FC)	66680	70331	69232	. 0
	LC)	13073		6765	0
7.Misce.Ex	репев	3958	4355	4797	
8.Engineer 9.Continge	1ng & 61	7 5583	6150		0
9.Contings	ucian	7975	8785	9600	0
10 Import	Dutles	9696	11996	8579	0
10.Import 11.Value A	dded Ter	6220	6937	7316	0
Sub-tota	1	33432	38223	37012	0
TOTAL (100	0 Beht)	113185	126073	133009	0
PC	,	73908	77941		0
£¢		39277	48132	34698	0
TOTAL (100	O US 6)	4527	5043	5320	0
PC		2958	3118		Ū
LC		1571	1925	1388	0

	BANGKOK HOI				Thousand Haht	
	***************************************	0	0		O One and a half	
	-Bus System 1	One and i	n half		One and a half	•
	-Voltage :	230 kV	1.1.4		500 kV	
	-Humber of Bay :	0			0	
	Mumber of Lines	0			0	
	-Number of Bank;				. 0	
	-Bus System : -Voltage -Number of Bay : -Number of Line: -Kumber of Henk; -Type	CONV.	Al-pipa INV.	GIS	Al-pips GIS CONV.	
	1 1.Land Acquisition 1 2.Land Improvement					0
	1 2 Land Teorgramani	i č	ň	. 0	ă	õ
	1 3.Foundation Work 1 *Bus 1 *Transformer 1 *Transh 1 4 Control Building	•	•	•	•	•
	1 -Bus	600	600	696	0	0
	-Transformer	3900	3900	3900	ŏ	ō
• :	1 -Tranch	ő	0,00	0,70	Ŏ	ŏ
	A Control Building	, n	ň	ň	ŏ	ō
	1		_ ~	ŏ		ŏ
	i -Transformer 1 -Trench 1 4.Control Building 1 5.Equipment 1 GIB 1 -Steel Structors 1 -Migos. hardwar 1 -Circuit Bresker 1 -Circuit Bresker 1 -Disconnect Swit 1 -Instrument Transler 1 -Control 6 SERVOthers	118090	118090	118090	0	ŏ
	1 -G1B	~~~~~		0		ŏ
	1 -Steal Structore	1500	1500	1500	0	ō
	1 -Misce, hardware	600	600	600	Ò	Ó
	1 -Transformer	111000	111000	111000	0	0
	1 -Circuit Bresker	. 0	0	- '	0 -	
	1 -Disconnect.Swit	. 0	0		0 -	
	i -Instrument Trac	1 0	0	~	0 ~	
	-Control & SKRV.	4990	4990	4990	0	Û
	1 -Others					
	l 5.Miece.Facilities		0	Ó	Q	0
	Sub-total	122590	122590	122590	0 0 0 0	0
	(FC)	107801	107013	107013	0	0
	(LC)	14789	15577	15577	0	0
	1 7. Hisca. Expense	6130	6130	6130	Ō	0
	l 6 Enginearing & Si	8581	8581	8581	. 0	0
	1.9.Contingenties	12259	12259	12259	0	Ó
	i 10. Import Duties	7666	7668	7666	ø	0
	Sub-total (FC) (IC) 17. Misco. Expense 18. Enginearing & Si 19. Contingencies 110. Isport Duties 111. Value Added Ya	9119	9119	9119	0	0
	Sub-total	43755	43755	43755		0
	POSE /1000 P-55					0
	TOTAL (INOU NEUE)	1100345	11816	100243	. 0	ŏ
	TOTAL (1000 Hent) FC LC	47314	483#1	28191	ň	ŏ
		4/317	10101	26101		
	TOTAL (1000 HS 4)	6644	LPAS	6684	0	
	TOTAL (1000 US 8) FC LC	4761	4727	4777	ŏ	ŏ
•	ič	1893	1927	1927	ŏ	

						•
•						
	BANGKOK NOI	2001			Thousand Beht	
				~~~~~~		
		. 0	. 0		Ø	1
	-Bus System :	One and	helf		One and a helf	
	-Bus System :Voltage :Number of Bay :Number of Line:	230 kV			500 ky	
	-Number of Bay :	ō			5	
	-Number of Line:				0	

BANGKOK NOT	2006			Thousand	Baht
-Bux System :	One and a	half		Oae and	
-Voltage :	230 kV			500 kV	
- HUMDER OF HEY :				ō	
-Rumber of Line:	2			0	
-Number of Bank;	0		444		010
-Type :	Al-pipa CONV.	Al-pipe INV.	GIS	Al-pipe CONV.	CIB
1.Land Acquisition	0	0			
2.Land Improvement	886	1139	84	0	c
3. Foundation Work					
~Bus	7519	7519			
-Transformer	0	ō			
-Tranch					
4.Control Building			ō	•	ō
5.Equipment	111222	123117	141155	484416	484416
-G18	••	-	118425		0
-Steel Structure	6938	8762			
-Miscs, hardware	9576				
-Transformer -Circuit Breaker	0				
-Circuit Breaker	33570			0	
-Disconnect.Swit -Instrument Tren	14263	14283		Q	
-Instrument Tran	25839	25839		0	
-Control & SERV.		-	71016	36816	36816
6.Nisce.Facilities	0	0	0	0	0
Sub-total	119627				
(FC)	100020	105497			
(LC)	19607	26278			
7. Miscs. Exponse 8. Engineering & 6V 9. Contingencies 10. Leport Duties	073/	6532 9224			
0.continuenting & 59	11063	13178			
10 Impart Dation	14843	17994			
11.Value Added Tex	9330	10404			
Sub-total	50147	57332	55218	181761	181761
TOTAL (1000 Baht)					
FC	110863				
LC	58911	72194	51704	182704	162704
TOTAL (1000 UB #)					
PC	4435				
rc	2356	2888	2068	7308	7308

	BANGKOK NOI	2001			Thousand	Beht
			0		ď	1
	-Bus System :	One and	a helf		One and	a helf
	"Voltage : -Number of Bay : -Number of Line:	230 kV			500 kV	
	-Number of Bay :	٥			5	
100	-Number of Line:	0			0	
	-Number of Bank:	1			4	
	-Type :	Al-pipe CONV.	Al-pipe INV.	GIS	Al-pips	GIS
,	1 1 Land Acoule(tic	on 0	0	0	0 4016	(
	i 1.Land Acquisition 2.Land Improvement	at 0	0	Ó	4016	39 (
	1 3. Foundation Worl					
	i Bu <b>s</b>	200	200	200	16300	4890
	l -Transformer	1300	1300	1300	15600	15600
	l -Trench	0	0	0	0	. (
	1 4.Control Buildin	19 0	. 0	0	0	
	1	-	•	0	- :	4875
	i 5.Equipment	39363	39363	39363	1084899	1228771
	1 -GIS	<b>-</b> .	-	0	-	503450
	i -Steal Structu	ra 500	500	500	15033	225
	i -Misce, hardwa:	re 200	200	200	81250	1200
	l -Transformer	37000	37000	37000	444000	444000
	i -Ciscuit Areak	er 0	. 0	-	175650	-
	I →Disconnect.Sw:	it o	0	-	84450	~
	-Instrument Tr	in O	0		105650	
	3.Foundation Mori - Bus - Transformer - Tranch - Control Buildis - Steel Structu - Misce. hardwe - Transformer - Circuit Break - Disconnect.8w - Instrument Tri - Control & SER - Other	V. 1553	1643	1863	177865	197860
	l 6.Miscs.Faciliti	въ О	0	0	Ģ	
	Bob-total	40863	40963	40863	1120815	1254530
	(50)	35934	35671	35671	975183	1142979
	(rc)	4929	5192	5192	145032	111551
	1 7.Hisco.Bapense	2063	2043	2043	55840	62707
	l s Kagineering &	W 2850	2860	2850	/8457	87817
	1 9 Contingencies	4086	4085	4086	117083	120400
	1 IV. IMPORT BUTION	4555	2005	2000	11/111	1U1343
	Sub-total (FC) (LC) 1 7.Misco Expense 1 8.Ragineering 5: 9.Contingencies 1 10.Import Duties 1 11.Value Added T	BE 3039	3039	3019	00388	30100
	PUT-FOCAT	14363	14303	14303	450078	475628
	TOTAL (1000 Baht	55446	55446	55146	1570893	
	PC	39677	39366 16058	39366		
	LC	15759				470305
	TOTAL (1000 US \$	) 2218	2218		62836	
	PC	1587	1576	1576	43052	
	LC	631	542	642	19784	18812

BANGKOK NOI	2011			Thousand	Beht
	0	0		0	0
-Bus System :	One end			One end	
-Voltage :	230 kV			500 kV	
-Mumber of Bay :	0			0	
-Number of Line:	i			Ö	
-Number of Bank:	0			i	
-Type :	Al-pipm CONV.	Al-pipe INV.	GIB	Al-pipe CONV.	GIS
					.~~~~~~
1.Land Acquisitio		0	0	0	Q.
2.Land Improvemen		0	0	0	0
3. Foundation Work		***	222	250	250
-Bue	200	200		250	
~Transformer	0	0	0	3900	39Q0 0
-Tranch 4.Control Buildin		0	0		Ö
4. Control Bullatin	. n	. 0	ő		ŏ
5.Equipment	700	700		121104	
-G18	~ ~ ~ ~		,00	121101	0
-Steel Structur	a 500	500		600	
-Misce, herdwar					300
-Transformer	i	ō	0	111000	111000
-Circuit Breake		ō		0	-
-Disconnect.Swi		ó	-	ò	
-Instrument Tra	n G	0	-	0	_
Control & SERV	. 0	0	0	9204	9204
-Others			•		
6. Misce. Fecilitie	s 0	0	0	0	0
Sub-total	900	900	900	125254	125254
(FC)	591	328	328	113275	113275
(tc)	309	572	572	11979	11979
7.Misca.Expense	45	45	45	6263	6263
8.Engineering & 8	¥ 63			8768	
9.Contingencies	90				
10.Import Duties	185			8520	8520
11.Value Added Te	× 76	76	76	9365	9369
Sub-totel	459	459	459	45441	45441
TOTAL (1000 Baht)	1359	1359	1359	170695	170695
PC	670	381	381	125017	
rc	689	978		45678	43676
TOTAL (1000 US 8)	54	54	54	6828	6828
PC .	27				5001
t.c	28	39	39	1827	1827
*					

RANGEIT	1997		•	Thousand Bai	at.
				0	0
-Bus Bystem :	One and a			One and a he	
-Voltage t	230 kV			500 kV	
"Humber of Bay :	0			Ō	
-Number of Line:	0			ō	
-Number of Bank: -Type :			Ata	. 0 Al≁pipa Gĭā	
	CONV.	INV.	•	CONV.	•
1.Land Acquisition 2.Land Improvement	a 0				0
2.Land Improvement	t 0	0	. 0	0	Ģ
3. Foundation Work				_	_
-Bua	600		600 3900	. 0	0
-Transformer -Tranch	3900	3900			0
4.Control Building	, ,	0			ŏ
	g 0	_ "			ŏ
5, Kquipment	118090	118090	118090	~ o	Ó
-G18	· -	÷ '	. 0	÷	0
-Steel Structure		1500	1200	U	Ò
-Hisco, hardware		600			0
-Transformer -Circuit Breaks:				0 .	O
-Disconnect.Swi		ă	Ξ	ŏ.	
-Instrument Tra	n 0	0			_
-Control & SERV	4990	4990	4930	0	0
-Others					
6.Higos.Facilities			0	0	0
Sub-total	127590				Đ
(PC)			107013		Q
(LC)	14789	15577	15577	0	0
7.Misce.Expense	6130	9130 0501	6130 8581		0
0.Continuencies	17259	12750	12259		ŏ
10. Import Duties	7666	7666	7656	ő	ŏ
7.Misca Expense 8.Engineering & 8 9.Contingencies 10.Import Duties 11.Valus Added Ta	k 9119	9119	9119	0	Ŏ
Sub-total		43755			ō.
TOTAL (1000 Babt)	166345	166345	166345	0	0
rc	119031	118164	118164	0	0
tc	47314	46181	48181		0
TOTAL (1000 US \$)	6654	6654 4727	8654	0	0
PC .	4761	4727	4727	0	0

	RANGSIT	2008			Thousand Baht	
	-Voltage : -Number of Bay : -Number of Line: -Number of Dank: -Type :	One and a 230 kV 0 0 2 Al~pips conv.	0 half Al-pipe IRV.	613	One and a half 500 kV 0 0 0 Al-pipe GIS CORV.	0
	+					
111	1.Land Acquisition 2.Land Improvement 3.Foundation Work		0	0	0	0
ı	-Bus	400	400	400	0	0
ï	~Transformer	2600	2600	2600	0	0
1	-Tranch	0	0	Q	0	0
į	4.Control Building	. 0	0	0	0	0
•	5.Equipment	76726	78726	78726	- 0	0
î	~GIS	70720	70120	74720		ŏ
ī	+8teel Structure	1000	1000	1000	0	ŏ
1	-Misce, hardware	400	400	400	Ö	Ď
1	-Transformer	74000	74000	74000	Ó	0
1	-Circuit Breaker		0	_	0 -	
1	-Disconnect.Swit		0	~	0 -	
1	-Instrument Tran		. 0	=	0 -	_
1	-Control & SERV.	3326	3326	3326	0	0
í	5. Misco. Facilities	0	0	0	0.	0
	Bub-total	81726	81726	81726	0	0
	(FC)	71867	71342	71342	ŏ	ō
	(21)	9859	10384	10384	Ö	ò
	7. Hisco. Expense	4086	4086	4086	Ó	Ó
1	8.Engineering & 8V	5721	5721	5721	0	0
1	9.Contingencies	8173	8173	8173	Ò	0
	10.Import Duties		5110	5110	0	Ø
E	11. Value Added Tex	6078	6078	6078	0	0
	Sab-total	29168	29168	29168	0	0
	fOTAL (1000 Baht)	110894	110894	110894	٥	0
	FC	79354	78777	78777	ō	Õ
	LC .	31540	32117	32117	0 -	ø
	TOTAL (1000 US 9)	4436 3174	4436	4435	0	0
	LC	1262	3151 1285	3151 1285	0 0	o
		1404	1402	C841	V	

	RANGEIT	2001			Thousend	Baht
		0	0		0	
	-Bus System :	One and :	half		One and a	half
	-Voltage :	230 KY			500 kV	
	-Number of Bay :	0			0	
	-Number of Line:	0			. 0	
	-Mumber of Bank:	1			0	
	-Туре :	Al-pipe CONV.			Al-pipe CONV.	910
,	1.Land Acquisition	0	0	0	0	
	2.Land Improvement					
	3. Poundation Work		•	v		
ì	-Bus	200	200	200	. 0	
:	-Transformar	1300				
÷	-Tranch	1300	1300	1500		
1	4.Control Building	. 0	0	ŏ	ŏ	
î	4.CORCIOI BUILDING	_ •		ő		
÷	5.Equipment	20262	20753	39363		
:	-GIS	37303	37303	37303		
i	-Steel Structure	500	500			
î	-Misce hardware					
i	-Transformer	37000	37000	37000		
î	-Circuit Brasker	. 3,000		37000	ŏ	
î	-Disconnect.Swit		ŏ		ő	_
ī	-Instrument Tran	Õ	ŏ		ŏ	-
ī		1863			ō	1
	-Others				_	
	6.Misos.Pacilities	. 0	0	0	0	
	Sub-total	40863				
	(₹C)	35934	35671			4
	(LC)	4929	5192	5192	Ů	
1	7.Misce.Expanse	2043	2043	2043		
1	B.Rngineering & SV	2060	2860	71000		i
1	9.Contingencies	4086	4086			
1	10.Import Duties	2555	2555			4
1	(LC) 7.Misce.Expense 8.Engineering E SV 9.Contingencies 10.Import Duties 11.Value Added Tex	3039	3039	3039	0	
	8ub-tots1	14583	14583	14563	0	
	TOTAL (1000 Baht)	55446	55446	55446	0	
	PC .	39677	39388	39368	Ó	
	rc	39677 15769	16058	16098		
	TOTAL (1000 US \$)	2218	2218			
	FC	1587				
	rc	631	642	642	Q.	

		RANGSIT	2011			Thousand	Baht
~~~							
. 0		~Bus System : ~Voltage : -Number of Bay :	0ne and a 230 kV	o half		One sind s 500 kV	half
		-Noaber of Line:	ő			ŏ	
		~Number of Bank:	0			. 0	
		-Type :	Al-pipa CONV.	Al-pipe INV,	GIB	Al-pipe CONV.	018
0	1	1.Land Acquisition	· 0	0	0	0	0
ŏ	1	2.Land Improvement 3.Poundation Work		ŏ	ō	ō	ŏ
0	ï	~Bue	0	0	0	0	0
ō	1	-Transformer	σ	0	0	. 0	0
0	. 1	-Treach	0	0	0	0	o
o o	ļ	4. Control Building	, 0	0	0	0	0
0	1	5.Equipment	٠ ٥	~ 0	0	~ 0	0
0.	;	-GIS		_ "	ŏ	_ 0	ŏ
0	í	-Steel Structure	. 0	0	ŏ	. 0	ŏ
ő	i	-Misce. hardware		ŏ	ŏ	ŏ	ŏ
ŏ	1	-Transformer	Ō	ō	ō	ō	õ
. •	1	-Circuit Breaker	·	ō	_	Ö	•
	1	-Disconnect.Swit		0	_	0	
	1	-Instrument Tran		0	-	0	-
0	1 1	-Control & SERV.	0	0	0	0	0
0	1	6.Misco.Pacilities	0	0	0	0	0
0		Sub-total	0	0	0	0	0
0		(PC)	ō	Ō	ō	Ģ	o
0	_	(r.c)	0	0	0	0	Q
O.		7.Mince Expense	, 0	0	ŏ	ó	0
0		8.Engineering & SV 9.Contingencies	0	0	0	0	0
0		10.Import Duties	ŏ	ŏ	o	0	ŏ
ŏ		11. Value Added Tex		ŏ	ŏ	ŏ	ŏ
0		Sub-total	0	0	0	0	0
0		TOTAL (1000 Baht)	0	0	0	0	0
0		PC	Ō	0	0	o	0
0		LC	0	0	0	0	0
0		TOTAL (1000 US #)	0	0	0	Ò	0
ŏ ·		PC	ō	ŏ	ò	ō	ŏ
ŏ		1.C	0	Ō	0	Ó	Ó

		0	0		. 0	0	
	-Rus System : -Voltage :	One and	n half		One and a held		
	-Voltage :	230 FA			300 XV		
	-worder or may :	3			0		
	-Number of Line:	1	4		O		
	-Number of Bank;				0		
					Al-pipe CIS CONV.		
1	3 Land Acoutaition		a	۸	0	0	
ż	2.Land Improvement	1177	1898	141	0	0	
	3. Poundation Work						
÷	-Bue	12532	12532	3759	.0	0	
÷	"Transformer	XPUQ	2600	2600	0	Ŏ	
;	4 Control N-()4)es		U	Ų	0	0	
1	-Transformer -Tranch 4.Control Building		υ	. 0	0	0	
ì	S Paul Smant	262507	282521	212610	_ 0	õ	
î	-GIR	102037	202321	197775		ŏ	
î	-Steel Structure	11364	14603	2100	. 0	ŏ	
ì	-Hisca, hardware	15060	32745	. 600	ŏ	ŏ	
ĩ	-Transformer	74000	74000	74000	ő	ŏ	
ī	-Circuit Breaker	55950	55950		ŏ ~	•	
1	-Disconnect. Swit	23805	23805	**	Ö		
1	-Instrument Tran	43065	43085	-	Ò -		
1	5.Equipment -GIS -Steel Structure -Hisce, hardward -Transformer -Circuit Breakez -Disconnect.Swit -Instrument TranControl & SERV -Others	38353	38353	38353	0	0	
ţ	6.Misca.Pacilities	. 0		-	_	0	
	Sub-totel	279305	299551	319018	0	0	
	(rc)	237387	246515	293017	0	Ċ	
	(LC)	41919	53036	25001	0	0	
1	7.Misce.Expense	13891	14883	15944	0	0	
1	8.Engineering & SV	19551	20969	22331	Û	0	
ī	9.Contingencies	27931	29955	31902	O	ο.	
1	10. Import Duties	28978	34730	25924	Ö	0	
1	Sub-total (FC) (LC) 7.Niaca.Expensa 8.Engineering & SV 9.Contingencias 10.Import Duties 11.Valus Added Tax					Q 	
	Sub-total					O	
	TOTAL (1000 Baht) PC LC	391133	423355	439255	. 0	0	
	10	17074	274869	322969	0	0	
		********				0	
	TOTAL (1000 US \$)- FC	15645	16934	17570	0	9	
	FC	10511	10915	12919	. 0	Ö	
	LC	E17/	6010	4651	0	0	

	SOUTH BANGKOK	2006			Thousand	Baht
	-Voltage : -Number of Bay : -Number of Line: -Kumber of Bank:	0 0ns and 1 230 kV 0 0			One and a 500 kV O O	
		Al-pipa CONV.	Al-pipe INV.	GIS	CONV.	Ç18
1	1.Land Acquisition 2.Land Improvement 3.Foundation Work		0	0	0	0
1	-Bus -Transformer -Tranch	200 1300 0		200 1300 0	0 0 0	0 0 0
i	4. Control Building		o o	o o	0	0
11	5.Equipment -618 -8teal Structure	39363	39363 500	39363 0 500	- 0	0
1 1	-Hiscs, hardware -Transformer -Circuit Brasker	200 37000	200 37000	200 37000	0	0
1	-Disconnect.Swit -Instrument Tran	0	0 0 0		0 0	-
111	-Control & SERV, -Others 5.Wisco.Pacilities		1663	1653 0	0	0
	Sub-total	40863		40863	0	0
1	(FC) (LC) 7.Misca. Expansa	35934 4929 2043	35671 5192 2043	35671 5192 2043	0 0 0	0 0 0
ì	B.Enginearing & SV 9.Contingennies	2860 4086	1860 4086	2860 4086	0	0
1	10.Import Duties 11.Value Added Tax	2555 3039	2555 3039		0	0
	Sub-total	14583			Q	0
	TOTAL (1000 Baht) FC LC	55446 39677 15769	35446 39388 16058	55446 39368 16058	0 0 0	0 0 0
	TOTAL (1000 US \$) FC	2216 1587	2218 1576	2218 1576	0	0
	tc	631	642	642	0	Ō

	FC LC	10511 5134	10915 6019	12919	0
	SOUTH BANGKOK	2001	*		Thousand Beht
		0			0
	-Bue System :	One and a			One and a half
	-Voltage :	230 kV			500 kV
	-Kusher of Bay :	0			Ó
	-Number of Line: -Number of Benk:	0			0
		Al-pipa	Al-pipe	GIB	Al-pipe GIS
		CONV.	INV.		CONV.
	1.Land Acquisition		0	0	0
	2.Land Improvement	Q.	0	0	0
1	3.Foundation Work	. 0	0	. 0	. 0
ĩ		ŏ	ŏ	ő	ŏ
1		0	0	0	o
1	4.Control Building	0	0	0	0
i			٠.	ó	- 0
1	-G18	-	~ ~	ŏ	
1			0	0	o
1		0	0	0	0
î	-Circuit Breaker		ŏ	_ 0	ŏ.
1	-Disconnact.Bwit	0	0	~	0 -
1			0		o .
i		v	υ	0	0
	6. Misca. Pacilities	0	0	0	0
	Sub-total	0	0	0	0
	(PC)	0	0	0	0
1	(LC) 7.Misca.Expanse	0	0	0	0
1	8. Engineering & SV		ŏ	ŏ	ŏ
1	9.Contingencies	0	o o	0	. 0
1	10 Import Duties 11.Velum Added Tex	0	0	0	0
•					
	Sub-total	. 0	0	. 0	0
	TOTAL (1000 Baht)	0	0	0	0
	ic	0	0	0	Ö
	TOTAL (1000 US 8)	0		. <u></u>	0
	FC (1000 05 8)	0	0	0	. 0;
	1.C	ŏ	ŏ	ŏ	ŏ

	SOUTH BANGKOK	2011			Thousand	Baht
		230 kV 0 0 0	Al-pipa		Dna and a 500 kV 0 0 0 Al-pipe CONV,	
1	1.Land Acquisition	0	0	0	0	
	Z.Land Improvement		ŭ	ŏ	o	0
	3. Poundation Work	. •	•	•	ď	U
î	-Bus	0	0	0	0	•
î	-Transformer	Ó	0	0	ŏ	0
î	-Treach	ő	ő	o	ŏ	0
î	4.Control Building		ŏ	ŏ	o o	
i	4.conctor auritarna	_ 0		ŏ		0
î	5.Equipment	. 0	- 0	ŏ	. 0	0
ī	-GIS	- "		ŏ	U	ŏ
î	-Steel Structure	. 0	_ 0	ŏ	~ 0	ő
ī	-Niece. hardware		ŏ	ŏ	ŭ	ŏ
î	-Transformer	Ö	ŏ	ä	Ö	ő
î	-Circuit Breaker		ŏ	. 4	ŏ	U
î	-Disconnect.Swit		ŏ	_	ŏ	~
î	-Inetrument Tran		ŏ		ö	_
ĩ	-Control & SERY.		ŏ	. 0	ŏ	- 0
1	-Others	•	•		•	•
ī	6.Mieca.Pacilities	0	0	0	0	0
	Sub-total	0	0	0	0	0
	{FC}	0	0	ò	Ď	Ö
	(LC)	0	Ó	Ó	Ō	ō
1	7. Hisca. Expense	0	0	0	Ó	0
	8.Engineering & BV	. 0	0	0	0	0
	9.Continguncies	0	0	0	0	0
1	10.1mport Duties	0	0	0	0	0
ŀ	11. Value Added Tax	0	0	0	0	0
	Bub-total	0	0	0	0	0
	TOTAL (1000 Baht)	0	Û	0	0	0
	FC FC	ñ	ŏ	ŏ	ö	0
	ič	ŏ	Ö	ŏ	ŏ	Ď
	TOTAL (1000 US \$)	0	0	0	0	0
	PC	0	0.	0	0	0
	ıc	Q	0	0	0	0

	SAMPHRAN 1	1997			Thousand	Baht
	-Bus System : -Voitage -Number of Bay : -Number of Line: -Xusber of Benk; -Type :	230 kV 0 0	Ai-pips	GIS	One and a 500 kV 0 0 0 0 0 0 Al-pips CONV.	
1	1.Land Acquisition 2.Land Improvement 3.Foundation Work	. 0	0	0	0	0
i	-848	200	200	200	0	0
1	~Transformer	1300			0	.0
1	-Trench	0	. 0	ō	0	0
1	4. Control Building	r 0	. 0	0	0	0
1	5.Squipment	39363	39363		_ 0	ŏ
ī	-G18	3,303	J. J	0,300	_	ŏ
ĭ	-Steal Structure	.500	500			. 0
ī	-Miscs. hardware -Transformer -Circuit Breaker	200			0	0
1	-Transformer	37000	37000			Ô
1	-Circuit Breaker	. 0	0		0	~
1	-Disconnect.Swit		0		0	-
1	-Instrument Tran					~ 0
i	-Control & BERV.	1003	1603	1003	v	v
i	6.Misca. Pacilities	. 0	0	0	0	Ó
	Sub-total	40863	40863	40863	0	0
	(FC)	35934			0	0
	(LC)	4929			0	0
1	7.Mince.Expanse	2043	2043			0
1	8.Engineering & St 9.Contingencies	7 2860	2860			0
1	9;Contingencies	4086	4085			ů
1	10. Import Duties 11. Velue Added Tex	2555 3039	2555 3039			ŏ
-	11.VELUE ACCES 164	. 3029		7637		
	Sub-total	14583	14583	14583	0	0
	TOTAL (1000 Bent)	55446	55446			0
	, PC	39677	39168			o o
	PÇ	15769	16058	16038	0	0
	TOTAL (1000 US 6)	2218	2218	2218	0	0
	FC FC	1587	1576			ŏ
	ič	631			0	Ó
	************				,	

	SAMPHRAN I	2008			Thousand Baht	
	-Voitage : -Number of Bay ; -Number of Line: -Number of Bank: -Type :	One and a 230 kV 3 2 0 A1-pipe CONV.	half Al-pipe		One and a half 500 kV O O O Al-pipe GIS CONV.	0
	1.Land Acquisition 2.Land Improvement 3.Foundation Work			0 64	0	0
ı	~Bus	7519	7519	2256	0	0
١	~Transformer	. 0	o o	0	0	á
1	-Trench	0	0	0	0	0
j	4.Control Building	. 0	0	0	Q	0
1	5.Equipment	111222	123117	141155	. 0	ŏ
i	-GIS	331242	******	118425		ŏ
i	-Steel Structure	6938	8762	1314	0	ō
ĩ	-Misco, hardware		19647	400	0	0
1	-Transformer	0	0	0	0	0
1	-Circuit Breaker	33570	33570	-	0 -	
1	-Disconnect Swit	14283	14283	-	0 -	
1	-Instrument Trac	25839	25839		0 ~	
1	-Control & SERV.	21016	21016	21016	0	0
1	~Others 6.Miscs.Facilities	. 0	. 0	0	0	0
Ţ	O.MISCS.FACCITCIES					
	Sub~total	119627	131775	143495	0	0
	(FC)	100020		133431	0	0
	(tc)	19607			Q.	0
I	7.Misca.Expense	5937			0	0
	8. Engineering & SV				0	ō
1	9.Contingencies	11963				0
ï	10.Import Duties	14543 9330	17994 10404	1272 <i>2</i> 10930	0	0
1	11. Value Added Tex	9330	10404	10930	· · · · · · · · · · · · · · · · · · ·	
	Sub-total	50147	57332	55218	0	0
	TOTAL (1000 Baht)	169774				0
	FC	110863			0	0
	tc	58911	72194	51704	0	0
	TOTAL (1000 US 9)	6791	7564	7949	0	0
	PC	4435			ŏ	ŏ
	rc rc	2356	2888		ŏ	ŏ

	SAMPERAN 1	2001			Thousand E	eht
	-Bus Bystem : -Voltage : -Number of Bay : -Number of Line: -Number of Bank; -Type :	One and a 230 kV 0 0 0 Al-pipe CONV.		G18	One and a 500 kV 0 0 0 A1-pipe C	
1	1.Land Acquisitio 2.Land Improvemen		Ó	0	0	0
ī			•	-		
í	-Bus	0	O	. 0	0	0
1	-Transformer	0	0	0	0	0
1	~Yranch	O.	0	0	0	C
1	4.Control Buildin	g O	0	0	Q	0
1		-	-	0	-	Q 0
1		0	0	0	0	0
1	-GIS		-	0.		Ŏ
1	-Steel Stroctur		ō	0	o o	0
1	-Hisce, hardwar		ø	0	0	0
1	~Transformer	0	0	G	0	. 0
1	-Circuit Braake		ō	_	Ö	
1	-Disconnect.Swi		0	~	0	_
1	-Instrument Tra -Control & SERV		ñ	~ 0	ŏ	
i	-Others	. ,	v	v	Ū	•
	6.Misce.Pacilitie	. 0	0	0	Ö	0
	Sub-total	0	0	0		0
	(FC)	0	0	0	0	0
	(LC)	0	0	0	o	0
	7.Misca.Expense	0	0	ō	Ō	ō
1	8.Engineering & S		0			Ŏ
1	9.Contingencies	0	0			0
1	10.Import Duties	ø	Ō			0
1	11.Velue Added To	× 0	0	0	0	0
	Sub-total	0	. 0	0	Q	0
	TOTAL (1000 Baht)	0	0	0		0
	PC .	O.	0			o.
	LC	0	. 0	0	0	
	TOTAL (1000 US #)		0			0
	PC LC	0	0			0

	SAMPRRAN 1	2011			Thousand I	Baht
	-Bus System : -Voitage : -Number of Bay : -Number of Line: -Number of Bank:	774 64	(STEP UP		0 One and a 500 kV 0 0	0 helf
	-Type :	Al-pipa CONV.	Al-pipa	GIS		is.
	1.Land Acquisition 2.Land Improvement 3.Foundation Work	. 0	0	0	0	0
i	-Bus	400	400	400	0	0
1	-Transformer	0	0	0	Q	Ç.
ı	~Trench	٥	0	0	0	0
1	4.Control Building		. 0	0	. 0	0
1	5.Equipment	1400	1400	1400	0	ō
1	-G18		-	0		0
1	-Steel Structure					0
1	-Misco, hardware		400		0	0
1	-Transformer		0	0	. 0	0
1	-Circuit Breaker		0	^	ö	-
1	-Disconnect.Swit		0	^	ő	-
1	-Instrument Trac -Control & SERV.		ő	- 0	ŏ	. 0
1	-Others 6.Hisce.Pacilities		0	0	0	0
	Sub-total	1800	1800	1800	0	0
	(PC)	1180	655			0
	(LC)	620	1145	1145		Q
1	7. Hisca. Expense	90	90			0
ı	O'ENGINDACTION & OF	140	126			0
1	9.Contingencies	180	180			0
1	10. Import Duties	371	371		0	Q
1	11. Value Added Tex	152	152	152	0	0
	Sub-total	919	919	919	0	0
	TOTAL (1000 Baht)	2719	2719	2719	0	0
	PC ,	1338	760		0	0
	YOTAL (1000 Baht) PC LC	1387	1959		0	. 0
	TOTAL (1000 US 8)	109	109	109	0	0
	¥C	54	30			0
	LC	55	78	78	0	0

0 0 1200 2600 0 0 81526	Al-pips INV. 0 0 1200 2500 0 81526 3000 1200 74000	00 00 1200 2600 0 0 81526 3000 1200 74000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GIS 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2 1-01pm 0mV. 0 0 1200 2600 0 0 81526 3000 1200 74000	A1-pips INV. 0 0 1200 2600 0 0 81526 3000 1200 74000	0 0 1200 2600 0 0 81526 3000 1200	Al-pips CONV.	GIS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2 1-01pm 0mV. 0 0 1200 2600 0 0 81526 3000 1200 74000	A1-pips INV. 0 0 1200 2600 0 0 81526 3000 1200 74000	0 0 1200 2600 0 0 81526 3000 1200	Al-pips CONV.	GIS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2 1-01pm 0mV. 0 0 1200 2600 0 0 81526 3000 1200 74000	A1-pips INV. 0 0 1200 2600 0 0 81526 3000 1200 74000	0 0 1200 2600 0 0 81526 3000 1200	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0
0 0 1200 2600 0 0 0 1526 3000 1200 74000 0	114V. 0 0 1200 2600 0 0 81526 3000 1200 74000	0 0 1200 2600 0 0 81526 3000 1200	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0
1200 2600 0 0 81526 3000 1200 74000	1200 2600 0 0 81526 3000 1200 74000	0 1200 2600 0 0 81526 0 3000 1200 74000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1200 2600 0 0 81526 3000 1200 74000	1200 2600 0 0 81526 3000 1200 74000	1200 2600 0 0 81526 3000 1200 74000	000000000000000000000000000000000000000	000000000000000000000000000000000000000
2600 0 0 81526 3000 1200 74000	2600 0 0 81526 3000 1200 74000	2600 0 0 81526 0 3000 1200 74000	0 0 0 0 0	0 0 0 0 0
3000 1200 74000	81526 3000 1200 74000	0 0 81526 0 3000 1200 74000	0 0 0 0 0	0 0 0 0 0 0
3000 1200 74000	81526 3000 1200 74000	0 0 81526 0 3000 1200 74000	° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	000000000000000000000000000000000000000
3000 1200 74000	81526 3000 1200 74000	81526 0 3000 1200 74000	0	0 0 0 0 0 0
3000 1200 74000	81526 3000 1200 74000	3000 1200 74000	000	0 0 0 0
3000 1200 74000	3000 1200 74000	3000 1200 74000	0	0 0 0 0
1200 74000	1200 74000	74000	0	0
		1200 74000	0	Ó
		74000	. 0	
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	ŏ	-	ő	
3326	3326	3326	õ	
0	0	0	0	0
	85326			0
74279	72653	72653		
11097	12673	12673		
4200 X077	4200	4255		
8533	8533	8522		
5852	5852	5852		
6382	6382	5382		
				. 0
116332	- 116332	116332	0	0
82032	80299	80299	. 0	
34300	36033	36033	0	0
4653	4653			
	4266 5973 8533 5852 6382 31006 116332 82032 34300 4653 3281	4266 4266 5973 5973 8533 8533 5852 6382 6382 6382 31006 31006 116332 116332 82032 80299 34300 36033 4653 4653 3281 3212	4266 4266 4266 5973 5973 5973 8533 8533 8533 5852 5852 5852 6382 6382 6382 31006 31006 31006 116332 116332 116332 82032 80299 80299 34300 36033 36033 4653 4653 4653 4653 3281 3212 3212	4266 4266 4266 0 5973 5973 0 8533 8533 8533 0 8582 5852 5852 0 6382 6382 6382 0 31006 31006 31006 0 116332 116332 116332 0 82032 80299 80299 3 34300 36033 36033 0

	e.					
	BOUTH THOMOURI	2008	· 	· 	Thousand I	Baht
•	-Voltage : -Number of Bay : -Number of Lies; -Number of Bank:	One and 230 kV 0 0 0 A1-p(pe CONV.			One and a 500 kV 0 0 A1~pipe	
1 1 1	3. Foundation Work	0	0	0	0	0
1 1 1	-Bus -Transformer -Tranch 4.Control Building	0 0 0	0 0 0	0 0 0	0 0 0	0
1 1 1	5.Equipment -GIS -Steel Structure	- 0	- 0	0 0 0		0 0 0
1 1 1 1	-Miace, hardware -Transformer -Circuit Breaker -Disconnect.Swit	- 0	0 0 0	-	0 0 0	0 0 -
1 1 1 1	-Instrument Tran-Control & 88KVOthers 6.Nisce, Facilities	. 0	0	0	0	" o
	Sub-total (FC) (LC)	0 0	0	0	0	0 0 0
1	7.Misca.Expanse 8.Engineering & SV 9.Contingencies 10.Emport Duties	0	0 0 0	0 0 0	0 0 0	0 0 0
1	11.Value Added Tem Sub-total	0	0	0	0	0
	TOTAL (1000 Heht) PC LC	0	0	0	0 0 0	0 0
	TOTAL (1000 US \$) FC LC	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0

	SOUTH THONBURI	2001			Thousand	Baht	
	-Voltage : -Number of Bay : -Number of Line:	. 0			0 One and 500 kV 0 0		•
		O Al-pipa CONV.	Al-pipe INV.	GIS	Al-pipe CONV.	GIS	
	1.Land Acquisition		0	0	0	0	-
	2.Land Improvement 3.Poundation Work	. 0	0	0	0	Q	
1	-Bus	0	0	0	0	0	
ı	~Transformer	o	0	0	0	. 0	
1	-Trench	0	0	0	0	0	
1	4.Control Building	0	0	0	0	0	
1		•	-	0	- '.	0	
	5. Rquipment	0	G.	0	0	0	
1	-G18			0	- :	0	
1	-Steel Structure -Hisce, hardware		0	. 0	. 0	0	
Ĺ	-Transformer	Ö	0	. 0	. 0	ŏ	
ì	-Circuit Breaker		ŏ	•	· ŏ		
i	-Disconnect.Swit		ŏ	_	ő	_	
	-instrument Tran		. ŏ		ŭ		
	-Control & SERV.		ŏ	0	õ	0	
Ĺ	-Others			•	•	-	
L	5.Misco.Facilities	0	. 0	. 0	0	0	
	Sub-total	0	0	0	0	0	
	(FC)	. 0	0	ō	0	0	
	(100)	0	0	. 0	0	0	
1	7.Misco.Expense 8.Engineering & 8V	. 0	0	0	0 0	0	
1	9.Contingencies	0	0	ŏ	0	ő	
î	10. Import Duties		ŏ	ŏ	. 0	ŏ	
î	11. Value Added Tex	Ŏ	Ö	ŏ	. 0	Q	
	Sub-total	·	0	0	0		•
		•				•	
	TOTAL (1000 Baht)	o	0	. 0	0	0	
	PC	. 0	0	ő	0	0	
	LC	0	0	0	0	0	
	TOTAL (1000 DE \$)	0	0	0	Ų	0	
	FC .	0	0	0	0	0	
	LC	0	0	Ð	Ó	0	

	SOUTH THONBURI	2011			Thousand Baht	
	-Bus System : -Voitage : -Voitage : -Number of Bay : -Number of Line: -Number of Bank; -Type :	One and of 230 kV O O O O O O O O O O O O O O O O O O		018	One and a half 500 kV O O O Al-pipe GIS CONV.	r
1	1.Land Acquisition		0	0	0	Ü
1	2.Land Improvement 3.Foundation Work	. 0	0	0	0	0
î	-Bun	0	0	0	0	0
1	-Transformer	o	0	0	0	0
1	-Trench	0	0	Ð	0	0
1	4.Control Building	. 0	0	0	0	0
1	F Wandaras	. 0	~ 0	0	- 0	0
í	5. Equipment -G18		- 0	ű		ő
i	-Steel Structure	. 0	0	ő	_ o	ŏ
ī	-Hiscs, hardwate		ŏ	ŏ	õ	ŏ
1	-Transformer	0	0	0	٥	0
1	-Circuit Breaker		0	•	٠ ،	
1	-Disconnect.Swit		0	-	o -	-
1	-Instrument frac- -Control & 658V.		0	- 0	0 .	
1	-Others		U	0	v	0
	6.Misce.Facilities	0	0	0	0	0
	Sub-total	0	0	0	0	0
	(PC)	0	Ű	0	0	Ò
	(LC)	0	Q	0	0	0
1		, 0	0	0	9	0
	8.Engineering & 9V 9.Contingencies	, u	0	0	0	0
	10.Import Duties	ŏ	ŏ	ŏ	ŏ	ő
î	11.Value Added Tax		ŏ	· ŏ	ŏ	ŏ
	Sub-total	0	0	0	0	0
	TOTAL (1000 Baht)	0	0	0	0	0
	FC	Ġ.	Ó	0	0	Ō
	LC	0	0	0	0	0
	TOTAL (1000 US \$)	0	0	0	0	D
	PC (1000 00 V)	ŏ	ŏ	ŏ	ŏ	ō
	LC .	ò	ō	ō	ŏ	ŏ

a :	0 bhi enO	0			
a :				One and	
	230 kV			500 kV	
of Bay !				0	
of Line:				ŏ	
of Bank;	. 0			Ó	
	Al-pipa CONV.	Al-pipe INV.	OIS	Al-pips CONV.	GIS
Acquisitio		0	0	0	0
Improvemen		Ó	0	Ó	d
ation Work					
	0		0	0	G
BIOXNET	0			0	0
ch	Q.			0	0
ol Buildin	g 0	0	0	0	Q
			0		0
sent .	0	0	0	0	0
1 Structur	e - 0	٠ ،			. 0
a berucui				ŏ	. 0
aformar				ő	Ö
uit Breake				ŏ	
onnect.Swi			-	ŏ	-
rument Tre	n 0	Ō	·	ō	_
rument Tra rol & SERV ru	. 0	0	0	0	0
	a 0	.0	0	0	0
otel	0	0	0	0	0
(10)					: 0
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saring 6 9	v š			ŏ	0
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a Added Ta	x 0	Ó	Ò	Ò	Ò
otal	0	. 0	0	0	0
1000 Baht)	. 0	0	0	0	0
	Đ	0	0	0	Q
	0		0		0
1000 US 6)			0	ō	0
					6
	.Facilitie otel (FC) (LC) ,Expense bering & S ngancies rt Duties a Added Ta otel	Facilities 0	Facilities 0 0 0 0 0 0 0 0 0	Facilities	Facilities

	RATCHADAPISBK	2006			Thousand B	aht
	-Bus System : -Voltage : -Kumber of Bay : -Kumber of Line: -Number of Bank: -Type :	One Brid a 230 kV O O O O O O O Al-pipe CONV.	Al-pips	GIS	One and a 1 500 kg 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
1	1.Land Acquisition 2.Land Improvement	0	0	0	0 0	0
111	3.Foundation Work -Bus -Transformer -Trench	0 0 0	0 0 0	0 0 0	0 0 0	0
1	4.Control Building	-	. ~	0	- 0	0
1	5.Equipment -GIS -Steel Structure	0	- 0	0 0 0	- 0	0 0 0
1	-Misce, hardware	0	0	o q	0	. 0
1	-Circuit Breaker -Disconnect.Swit -Instrument Tran	. o	0 0 0	-	0 0	-
1	-Costrol & SERV. -Others 5.Hisce.Facilities	_	0	0	0	0 0
	Sub-total	0				
_	(FC) (LC)	8	0	0	0	0
ì	7.Miscs.Expanse 8.Engineering & SV 9.Contingencies	, 0	0	0	0 0	0 0 0
1	10. Import Duties 11. Value Added Tax	ō	0	0	ŏ	o o
	Sub-totel	0	0	0	0	0
	TOTAL (1000 Baht) PC LC	0 0 0	0 0 0	0 0 0	0 0 0	0
	TOTAL (1000 US \$) FC LC	0	0 0 0	. 0 0 0	0 0 0	0

rc	0	0	Ö	0	0	
			•			
RATCHADAPISEK	2001			Thousand Eaht		

	0	0		One and a hal	0	
-Bus Bystem : -Voltage : -Number of Bay :	One end	a helf		One and a hal	. T	
-voitage :	. 230 KY			500 kV		
-Number of Line:	0			0		
-Number of Bank:	0 2			ň		
-type :	Al-pipe	Al-pipe	GIS	Al-pips GIS		
	CONV.	INV.		Al-pipe GIS CONV.		
1.Lead Acquisition 2.Lead Improvement 3.Poundation Work	0	0	0	0	0	
2.Land Improvement	. 0	. 0	. 0	0	0	
-Bua	400	400	400	0	0	
-Bus -Transformer -Transh 4.Control Building	2600	2600	2600	0	0	
4 Control Duilding	. ,	Ň	ý	ő	ò	
4.concror sorraring			. ŭ	~ "	ŏ	
5.Equipment	78726	78726	78726	0	ŏ	
-G19	-	-	Ö		Ö	
-Steel Structure	. 1000	1000	1000 400 74000	Q	0	
-Niece, hardware	400	400	400	0	0	
-Transformer	740D0	74000	74000	0	0	
-Circuit Breaker	. ,	. 0	-	0	-	
~Tostomant Fran	ň	ň		ŏ	-	
-Control & SERV.	3326	3326	3326	ŏ	0	
-GIS -Steel Structure -Nisce. hardware -Transformer -Circuit Breaker -Disconnect.Swit -Instrument Tran -Control & SERVOthers						
0.01400.7401110144	Ų	v	v	v	Q	
Sub-totel (PC) (LC) 7.Niece.Expense 8.Engineering 5 89 9.Contingencies 10.Export Duties 11.Value Added Tex	81726	81726	81725	0	0	
(PC)	71887	71342	71342	0	ø	
(LC)	9859	103B4	10384	o o	o o	
7.Nieca.Expense	4086	4086	4086	0	0	
#.mgineering & BY	3721	5721	5721	0	0	
10 Tecart Duties	61/3 511/4	2110	5117	D D	0	
11.Value Added Tex	6078	6078	6078	ő	ŏ	
Sub-total	29168	29168	2916B	0	0	
TOTAL (1000 Bant)	110894	110894	110894	0	0	
/C `	79354	78777	78777	Õ	0	
TOTAL (1000 Baht) FC LC	31540	32117	32117	0	0	
TOTAL (1000 US 8) FC LC	4436	4436	4436	0	0	
rc	3174	3151	3151	o o	o o	
LC .	. 1262	1285	1285	0	0	

d Baht			RATCHADAP18EK					Thousand		
0 A half V	0		-Bus System -Voltage	:	0 0 das da0 14 055	o half		Qne end S00 kV	a helf	
0			-Number of Bay -Number of Line	:	0			0		
GIS			-Number of Bey -Number of Line -Number of Bank -Type	:	Al-pipe CONV.	Al-pipa INV.	619	Al-pipa CONV	GIS	
0	0									(
Ō	0	. 1	1.Land Acquisit 2.Land Improvem 3.Poundation No	ent rk	õ	ō	ŏ	ŏ		
0	0	1	-Bus		200	200	200	0		-
ō	0	1	3.Poundation Wo -Bus -Transformer -Trench		1300	1300	1300	Ō		•
0	0	1	-Trench	.	. 0	ŏ	0	ō		- !
IJ	0	ž	arcouttot anilo	ıπg	. 0	_ 0	9	. 0		
0	0	î	5.Remissant		39363	39363	39363	. 0		
	ŏ	ī	-G18		32303	37203	3,333			
	0	1	-Steel Struct	ure	500	500	500	0		
)	0	1	-Misca, hardw	0 FW	200	200	200	0		
)	0	1	-Transformer		37000	37000	37000	Q		
} -		1	-Circuit Brea	Ker.	. 0	ō	-	0	-	
-		1	-Disconsect.S	WIC	ž		~	Ŏ	_	
5	o	î	-Bus -Transformer -Trench 4. Control Build 5. Rquipbent -GIS -Steel Struct -Misca, hardw -Transformer -Circuit Brea -Disconnect. S -Instrument T -Control & Br. Tothers 6. Misca-Facilit	RV.	1663	1663	1663	ŏ	•	1
)										-
)	0		Sub-total		40863	40863	40863	0		-
}	0		(FC)		35934	35671	35671	Ō		
)	0	_	(LC)		4929	5192	5192	0		
))	0	1	/.Hisce.Expanse		2043	2043	2043	0		-
)	ő O O	1	Continuering E	öΥ	2860	2850	2850	0		
, }	õ	1	10. Import Butter		7555	7456	4000 2555	Ö		
,	ŏ	î	Sub-total (FC) (LC) 7. Hisca Expansa 8. Enginearing & 9. Contingencies 10. Import Butie 11. Value Added	Tax	3039	3039	3039	ő		
0	0		8ub-total				14583			-
)	o o		TOTAL (1000 Bah PC LC	t)	55146	55446	55466	0		+
)	0		FC		39677	39386	39380	ō		- 1
	0									
)	0		TOTAL (1000 US) FC LC	8)	2218	2218	2218	0		(
0	0		FC		1387	1576	1576	ŏ		
0	0		ľC		631	642	642	0		1

	BANG KAPI	1997			Thousand	Beht
		0	0		0	0
	⇔Bus System :	One and	holf		One and a	half
	-Voltage :	230 50			500 kV	
	-Number of Bay :	2	(XBLONG		. 0	
	-Number of Line:	. 3	(XBLONG '	TORY)	Ò	
	-Mumber of Back:				0	
	~Yype :	Ai-pipe CONV.	4117.	GIB	Al-pipa CONV.	GIS
1	1.Land Acquisition	0	0	0		0
	2. Lund Improvement		759	56	Ö	Ò
	3. Foundation Work				-	=
i.		5013	5013	1504	٥	0
ī	-Transformet	1300	1300	1300		ō
î	-Tranch					. 0
î	4. Control Building	0	õ		ò	ó
ī		·		ŏ		Ō
î	5.Equipment	112812	120741	133300	0	Ó
ī	-G18			78950		Ò
ī	-Steel Structure	4626	5841	876	٥	Ó
ī	-Misce, bardware	6384	13098		Ō	Ō
ĩ	-Transformer	37000	77000	44040		ō
ĩ	-Transformer -Circuit Breaker	22380	22380		ŏ	
ī	-Disconnect. Swit	9522	9522	_	0	· -
ī	-Disconnact.Swit	17226	17226		0	-
1	-Control & SERV.	15674	15674		0	0
1	-Others					
1	6.Misce.Facilities	. 0	0	0	0	0

	Sub-totel	119716	127813			o o
	(PC)	102023	105674	124742		o
	(LC)	17693	22139	11418		0
1	7.Misce.Expanse	5956	6353	6802		0
1	Ve 2 pairesaigns. 8	8380	8947	9531		Q
. 1	9.Contingencies	11972	12781	13616		<u>o</u>
1	10. Export Duties	12065	14366	11007		ō
1	7.Misce.Expense 8.Engineering & 9V 9.Contingencies 10.Import Duties 11.Value Added Tax	9183	9900	10297	0	
	Sub-total		52347		0	0
	107AL (1000 Baht)	167272	180160	187416		0
	rc	112916	116940	137502		
	rc	54356	63217	49914	0	0
• .	TOTAL (1000 US 4)	6691	7206	7497	0	. 0
	rc `	4517	4578	5500	0	0
	LC	2174	2528		Ō	0

	BANG KAPI	2006			Thousand I	Beht
	-Bus System : -Voltage -Number of Bay : -Number of Line: -Number of Bank: -Type :	One and a 230 kV O O O O O O O O O O O O O O O O O O	haif Al-pipa	G18	One and a 500 kV O O O Al-pipe CONV.	o half
	1. Lend Acquisite 2. Lend Improvement 3. Roundation Work Bus - Transformer - Tranch 4. Control Buildin 5. Rquipment - GIS - Steel Structur - Nisce. hardwar - Transformer - Circuit Breske - Disconnect. Swi - Instrument Tra - Coherz 6. Misce. Pacilitie 6. Misce. Pacilitie 6. Misce. Pacilitie	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 0	000000000000000000000000000000000000000
1	Sub-total (PC) (LC) 7. Hisce. Expensa 8. Engineering & E 9. Contingencias 10. Import Duties 11. Valua Added Ta Sub-total TOTAL (1000 Heht) PC LC TOTAL (1000 US \$)	0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	PC LC	0	0 0	0	0	ò

	DANG KAPI	2001			Thousand Bant	
		0	0		0	0
	-Bus System :				One and a half	•
	-Voltage :	230 kV	,		500 kV	
	-Number of Bay :	2			0	
	-Number of Lines	ž			ŏ	
	-Number of Bank:	ī			ŏ	
	-Typs :	Al-pipe	Al-pipe	GIS	Al-pipa GIS	
	-350	CONV.	ihv.		CONV.	
1	1.Land Acquisition	0	0	0	0	0
	2.Land Improvement			56	o i	0
	3. Foundation Work					
1	-Bug	5013	5013	1504	0	0
ī	-Transformer	1300				0
ī	-Treach	0		Ó	. 0	0
ī	4.Control Building	. 0	ó	ó	o	O
ī				· õ	_	٥
ì	5.Equipment	112812	120741	133100	0	٥
1	~G18	~		78950	₩	0
ĩ	-Steel Structure	4626	5841			0
1	-Misce, hardware				0	0
. 1	"Transformer	37000		37000	0	0
ī	-Citcuit Brasker	22380	22380	_	0 -	
1	~Disconnect.Swii	9522	9522	-	0 -	
1	-Instrument Trai -Control & SERV.	17226	17226	_	0 ~	
1	-Control & SERV.	. 15674	15674	13674	0	0
1	-Others					
1	6.Miscs.Facilities	. 0	٥	0	0	0
	Sub-total	119716				0
	(PC)	102023				0
	(rc)	17693	22139			0
	7.Misca.Expense	5936	6353			0
1	8. Boginsaring & St	0818	8947			ŏ
	9.Contingencies	11972	12781			ő
1	10 Import Duties	12065	14366	10948		0
ı	11. Value Added Tax	k 9183	9900	10279		
	Sub-total	47556	52347	51135	0	0
	TOTAL (1000 Babt)	167272	180160	187095	0	0
	FC	112916		137318		0
	LC	54356	63212	49777	0	0
	TOTAL (1000 US 9)	6691	7206	7484	0	0
	PC	4517				ŏ
	LC	2174				ŏ
	p.c.					

	BANG KAPI	2011			Thousand Baht	t
		0	0		0	0
	-Bus System :	One and	half		One and a hall	l f
	-Voltage :	230 kV			500 kV	
	-Number of Bay :	0			o o	
	-Number of Line:	1	(KHLONG	TORY)	0	
	-Kumber of Bank:	0	/		0 270	
	-Type :	Al-pipa CONV.	Al-pipa INV.	GIS	Al-pips GIB	
1	1.Land Acquialtion	0	0	0	0	0
1	2.Land Improvement		o	0	Ö	Ó
1	3. Poundation Work					
1	Bua	200	200	200	0	0
1	-Transformer	. 0	Ō	0	0	Q
1	-Treach	0	0	0	0	0
1	4.Control Building	, 0	0	0	0	0
1	5.Rquipment	700	700	0 700	٠,	ŏ
î	-GIS	,,,,	,,,,	,,,,		ŏ
î	-Steel Structure	500	500	500	ð	ŏ
î	-Misce, hardware		200	200	ŏ	ŏ
ī	-Tracsformer	0	0	0	ō	ŏ
1	-Circuit Braskar		0		0	-
1	-Disconnact.Swit		O	~	0	-
1	-Instrument Trac		0	~	Ō	-
1	-Control & BERV.	. 0	0	0	0	0
1	-Others 6.Misco.Facilities	. 0	0	a	0	O
1	O.GIBCO.FECTITIES					
	Sub-total	900	900	900	0	0
	(FC)	591	328	328	0	0
	(LC)	309	572	572	0	0
	7.Missa.Expense	45	45 63	45 63	0	0
•	8.Engineering & St 9.Contingencies	/ 63 90	90	90	Ď	ŏ
î	10. Import Duties		185	165	ŏ	ő
1			76	76	ŏ	ŏ
	Sub-total	459	459	459	0	0
	TOTAL (1000 Beht)	1359	1359	1359	D	0
	FC TOTAL COLLET	670	381	381	ŏ	ŏ
	rc	689	978	978	Õ	0
	TOTAL (1000 US \$)	54	. 54	54	0	0
	PC `	27	15	15	0	0
	LC	28	39	39	0	0

	ON MACH	1997			Thousand Baht	
		0	0		. 0	
		One and	n helf		One and a hal.	Γ.
	-Voltage :	230 kV			500 kV	
	-Number of Bay :	0			Q.	
	-Number of Line:	0			ų.	
	-Number of Bank:	3			0	
	-Type		Al-pipa	GIB	Al-pipe GIS	
		CONV.	INV.		CONV.	
1	1.Land Acquimition	. 0	0	Q	Q.	0
- 1	2.Land Improvement	. 0	0	0	0	0
. 1	3. Foundation Work					
1	-Bu∎	600	600		ū	0
1	-Trensformer	3900				0
1	-Trench	0		0	0	0
ı	4.Control Building	. 0	0	0	0	0
1		-	-	. 0	-	0
1	5.Equipment	118090	118090	116090	0	0
1	-019	-	-	0	-	0
1	~Steel Structure	1500	1500	1500	. 0	0
1	-Riece. hardware	600	600	690	0	0
1	-Transformer	111000	111000	111000	Ò	0
1	+Circuit Breaker	. 0	0		0	-
1	-Disconnect, Swit		0		0	_
1	-Instrument Tran	ò	0	-		••
- 1	-Control & BERY.		4990	. 4990	Ô	٥
ĩ	-Others					
	6.Misca.Fecilities	. 0	0	0	G	0
•					_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Sub-total	122590	122590	122590	. 0	. 0
	(FC)	107801		107013		Ö
	ic}	14789				ō
•	7.Mlaca.Expense	6130				ŏ
•	8. Engineering & St	/ 8581				. 0
٠,	9.Contingencies	12259				ő
•	10. Import Duties					õ
1	11. Value Added Ter	9119	9119			ŏ
•	11.45104 20040 101	, ,,,,			~	
	Sub-total	43755	43755	43755	0	0
	TOTAL (1000 Haht)	166345		166345		0
	PC	119031	118164	118164	0	0
	LC	47314	48181	48181	٥	0
	TOTAL (1000 US #)	6654	6654	5654	0	0
	PC	4761				٥
	rc	1893	1927	1927	0	O

	ом носи	2006			Thousand	Baht
	-Voltage : -Number of Bay : -Number of Line: -Number of Bank: -Type	One and a 230 kV 0 0 1 Ai-pipe CONV,	0 helf Ai-pipe INV.	GIS	One and a 500 kV 0 0 0 Al-pipe CONV.	
1	1.Land Acquisition 2.Land Improvement 3.Foundation Work -Bus -Transformer	200 1300	0 0 200 1300	0 0 200 1300	0	0 0 0
1111	-Trench 4.Control Building 5.Equipment -GIS	39363	39363 0	39363 0 0	- 0	0 0 0 0
1 1 1 1 1 1	-Steel Structure -Misco, hardware -Transformer -Circuit Breaker -Disconnect.Swit -Instrument Tran	200 37000 0	500 200 37000 0 0	37000 -	0 0 0 0	0 0 0
1	-Control & SERV. -Others 6.Miscs.Facilities	1663	1663	1663	0	0
111	Sub-total (FC) (LC) 7.Misca.Expense 8.Engineering & SV 9.Contingencies 10.Import Duties 11.Value Added Tax	4086 2553	2555	40863 35671 5192 2043 2860 4086 2555 3039	0 0 0 0 0 0	000000000000000000000000000000000000000
•	Sub-total FOTAL (1000 Baht)	14583 55446	14583	14583 55446	0	0
	TOTAL (1000 US 6) FC LC	39677 15769 2218 1587 631	16058 2218	2218 1576 642	0	0

	ON NUCE	2001			Thousand	Baht
		0	0		0	0
	-Bus System :	Doe end a			One and a	
	-Voltage :	230 kV			500 kV	
	-Number of Bay :	200 0			0	
	-Number of Line:	2			ŏ	
	-Number of Bank:	ō.			õ	
	Тура	Al-pipe	#1-nine	GTA	Al-pipe	GER
	-13bm	CONV.	INV.		CONV.	
	1.Lund Acquisition		. 0	O.	Ó	ō
1	2.Land Improvemen	t o	. 0	0	0	0
	3. Foundation Work					
1	-Bus	400			o o	0
1	-Transformer	0	0	o,	0	0
1	-Treach	0		0	0	0
1	4.Control Building	y 0	0	0	0	Ō
1		-	.	0	•	ō.
1	5.Equipment	1400	1400		. 0	9
1	-GIS	-	~	0		0 0 0 0
1	-Steel Structur	1000	1000		0	0
1	-Miece, hardwar		400		0	0
1	~Transformer	D.	Ų		0	0
1	-Circuit Breaks				0	-
1	-Disconnect.Swi	t o		~	0	-
1	-Instrument Tre				0	
1	-Control & BERV	. 0	. 0	0	0	0
ļ	-Othere			. 0	0	ó
1	6.Miscs.Facilitie	. 0	0	. U		
	Bub-total	1800	1800	1800		0
	(PC)	1180	655	65 5	0	. 0
	(tc)	620	1145			0
1	7.Misca.Expense	90	90	90	0	0000
1	8.Engineering & 8 9.Contingencies	¥ 126	126			0
Í	9.Contingencies	180	180	180	Ó	0
1	10. Import Duties	371	371	371	0	0
1	11. Value Added Ta	x 152	152	152	0	ø
	Sub-total	919	919	919	0	0
	TOTAL (1000 Baht)	2719	2719	2719	0	o
	PC.	1336	760			Ó
	LČ	1338 1381	1959			ō
					-	
	TOTAL (1000 UB #)					0
	¥C	54				o
	LC	55	78	78	0	0
				~~~~~		

	ON NUCH	2011			Thousand B	aht
	-Bus System : -Voltage : -Number of Bay : -Number of Line: -Number of Back: -Type :	230 kV 0 0	Al-pipe		One and a 1 500 kV O O O O O O O O O O O O O O O O O O	
1	1.Land Acquisition	0	0	0	0	0
ì	2.Land Improvement		ŏ	ŏ	ŏ	ŏ
1	3. Foundation Work					
Į	-Bus	0	0	0	0	0
1	-Transformer	0	Ō	0	Ò	Ō
1	-french	0	0	0	0	0
1	4.Control Building	. 0	0	0	0	0
1	5.Equipment	- 0	- o	ŏ	- n	õ
i	+G18	~ 0		ő	- 0	ő
i	-Steel Structure	. 0	- 0	ŏ	0	ŏ
î	-Misca, hardware		ő	ō	ŏ	Õ
1	~Treneformer	o	o	Ò	0	0
1	~Circuit Breaker		0	-	0	-
1	-Disconnect.Swit		0	-	0	-
1	~Instrument Tran		ō		0	
1	-Control & SERV.	0	0	0	U	0
î		. 0	0	0	0	0
	Sub-total	0	0	0	0	0
	(FC)	0	ō	. O	ō	9
	(LC)	0	0	0	0	0
	7.Misca.Expanse	, 0	0	0	0	0
	8. Engineering & EV 9. Contingencies	. 0	ŏ	ő	ŏ	ŏ
	10.Import Duties		Ď	ŏ	ő	ŏ
î	11.Value Added Tax		ŏ	ŏ	ŏ	ŏ
	Sub-total	0	0		0	0
	TOTAL (1000 Baht)	0	0	0	ō	0
	PC	0	0	0	0	0
	LC		0	U		, ,
	TOTAL (1000 US 6)	0	0	0	0	0
	PC	ō	ŏ	. 0	ŏ	Ŏ
	. LC	0	Ů.	Ġ	Ō	Ď

	LAY PERAO	1997			Thousand	Baht
	-Bus System : -Voltage : -Number of Bey : -Number of Line: -Humber of Bank; -Type :	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		G18	One and s 500 kV 0 0 0 Al-pipe COMV.	
1 1	1.Land Acquisition 2.Land Improvements 3.Voundation Work	nt O	0	0	0	0
1	-Bos -Transformer -Tranch	0	. 0	0 0 0	0 0	0
î	4.Control Building		- ŏ	0	0	. 0
1	-GIS -Steel Structu -Miace, bardwa		- 0	0	- 0	0
1	-Transformer -Circuit Break	•r 0	0	. 0	0	- 0
1 1 1	-Disconnect.Sw -Instrument Tr -Control & SER -Others	on 0 V. 0	0	. 0	0	- 0
1	5.Hisce.Faciliti	<b>es</b> 0	0	0	0	0
	8ub-total (FC) (LC)	0	0 0 0	0	0 0 0	0 0 0
1	7.Misce.Expense 8.Enginearing & 9.Contingencies	0	0 0 0	0 0 0	0	0
1	10.Import Duties 11.Value Added T	ax 0	0	0	0	0
	aub-total	Ď	0	0	. 0	0
	TOTAL (1000 Baht FC LC	) 0	0	0	0	0
	TOTAL (1000 DE \$ PC LC	) 0 0		0 0		0 0 0

	LAT PERAO	2006			Thousand Baht	
	-Voltage : -Number of Hay : -Humber of Line: -Number of Bank: -Type	One and a 230 kV O O Al-pipe CONV.		G18	One and a haif 500 kV 0 0 Al-pipe Gis	0
1	1.Land Acquisition 2.Land Improvement 3.Foundation Work		0	0	0	0
1 1 1 1	-Bus -Transformer -Transformer -Tranch	800 5200 0 0	800 5200 0	800 5200 0 0	0 0 0	0
1	5.Equipment -016 -Steel Structure	157453	157453	157453 0 2000	_ o	0 0
1	-Misce. hardware -Transformer -Circuit Breaker -Disconnect.Swit	800 148000 0	800 148000 0	800 148000 -	0 0 0 - 0 -	0
1 1 1	-Instrument Tran -Control & SERVOthers 6.Misca.Facilities	6653	0 6653 0	- 6653 0	0 0	0
	Bub-total (PC) (LC)	163453 143736 19717	163453 142685 20768	163453 142685 2076B	0 0 0	0
1	7.Misce.Expense 8.Engineering & SY 9.Contingencies 10.Import Duties	8173 11442 16345	8173 11442 16345 10221		0	0 0 0
i			12158 58339	12158 58339	<u>ŏ</u>	ŏ 
	TOTAL (1000 Baht) PC LC	221792 158709 63083	221792 157553 64239	221792 157553 64239	0 0 0	0
	TOTAL (1000 US \$) PC LC	8872 6348 2523	8872 6302 2570	9872 6302 2570	. 0 0 0	0

	LAT PHRAO	2001			Thousand	Baht
	-Bus Bystem ;	One and	o balf		One and	o helf
		230 kV			500 kV	. (
	-Number of Bay :				0	
	-Number of Line:	ŏ			ŏ	
	-Number of Bank;	ŏ			ň	
	-Type :		Al-pipe INV.	819	Al-pipe CONV.	GIS
1	1.Land Acquisitlo	в 0	0	0	0	0
1	2.Land Improvemen	ŧ 0	. 0	0	0	0
	3.Foundation Work					
ı	-Bua	0	0	0	0	0
1	~Transformer	0	0	0	0	0
1	-Tranch	0	Ö	0	0	0
1	4.Control Buildin	g 0	0	0	0	0
1	*	-	-	0		Ö
1	5.Equipment	-0	. 0	0	0	0
1	~G18	~	•	0	-	0
1	-Steel Structur	• 0	0	0	0	0
1	-Misce, hardwar	. 0	0	0	0	0
1	-Transformer	0	0	0	0	Ø
1	-Circuit Breaks		9		0	
1	-Disconnect.Swi		D.	-	0	~
1	-Instrument Tra		0	•	o	-
1	-Control & SERV	. 0	0	0	0	. 0
1	-Others	_	_	_	_	
1	6.Misos.Facilitie			0		0
	Bub-total	0	0	0	0	Q
	(FC)	0	0	0	. 0	0
	(tc)	. 0	0	0		0
1	7.Miscs.Expense	0	0	0	0	0
	8, Bagineering & S		0	0		0
	9.Contingencies		0	0		0
	10. Paport Duties		0	0	0	0
1	11.Value Added Ta	x 0	0	0	0	0
	Sub-total	0	0	0	0	0
	TOTAL (1000 Baht)	. 0	. 0			0
	PC	Q				0
	rc	0	0	0	0	0
	TOTAL (1000 US \$)			0		0
	PC	0				
	1.C	ø	0	0	0	Q

	LAT PHRAO	2011			Thoosend Baht	
	-Voltage : - Humber of Bay :	0 0ne and 0 230 kV 0	o half		One and a helf 500 kV 0	0
	-Number of Line:	0			0	
	-Number of Bank: -Type	0 Ai~pips	Al-pipe	GIS	0 Ai-pipe GIB	
	-tXfe -	CONV.	INV.	013	CONV.	
1	1.Land Acquisition		0	0	0	0
1	2.Land Improvement 3.Foundation Work	: 0	0	0	0	0
1	~Dua	O	0	. 0	0	0
1	~Transformer	0	0	. 0	0	0
1	-Trench	0	0	0	0	0
1	4.Control Building	. 0	_ 0	0	_ 0	0
î	5.Equipment	- 0	٠,	ŏ	_ o	ŏ
î	-GI9	- "	_ `	ŏ	_ `	ŏ
ī	-Steel Structure	. 0	0	Ö	0	0
1	-Misca. hardware		0	0	0	0
1	-Transformer	0	. 0	0	0	0
1	-Circuit Bresker		0	-	o -	
1	-Disconnect.Swit		0	-	0 -	
1	-Instrument Trac -Control & SERV.		6	- 0	0 - 0	0
î	-Others	v	٧	v	v	v
ì	6.Misca.Pacilities	0	0	0	0	0
	Sub-totel	0	0	0	0	ō
	(PC) (LC)	0	0	0	0	0
	7.Risca.Expense	· ŏ	0	ŏ	ŏ	ŏ
	8. Engineering & SV		ŏ	ŏ	ŏ	ŏ
	9.Contingencies	ō	ō	ŏ	ŏ	ŏ
1	10. Import Duties	Ó	0	0	Ō	0
ì	11.Value Added Tex		0	0	0	
	Sub-total	0	0	0	0	0
	TOTAL (1000 Baht)	o.	o	o	ō	o
	FC	0	0	0	0	Û
	LC	0			0	0
	TOTAL (1000 US 6)	0	0	0	0	0
	FC LC	0	0	0	0	0
	i.c.		. 0	U	<b>U</b> .	V

BANG PHLY	1997		•	Thousand Baht	
++	0	0		0	(
-Bus System :	One and	e halt		One and a half	
-Voltage :	230 kV			500 kV	
-Number of Bay :	. 0			. 0	
-Number of Line:				0	
-Number of Benk:	2			<b>D</b> .	
~Type !	Al-pips	Al-pipe	GIS	Al-pips GIB	
	CONV.	INV.		CONV.	
1.Land Acquisition	n O	0	. 0		0
2. Land Improvement	t . 0	0	0	0	(
3. Youndation Work					
~Bus	400	400	400	0	(
-Transformer	2600				Ċ
-Tranch	-000		2000		ì
4. Control Building		ň	ŏ		Ġ
4. Control number	γ		×		ì
	78726	78726	78726	0	,
5. Rgulpment	10140	16126	/0/20		7
-GIB					7
-Steal Structur					
-Hisce, hardwar	<b>● 400</b>				4
-Transformer					-
-Circuit Breaks			•	0 -	
-Disconnact.Swi			. •	Q . ~	
-Instrument fre	n O			0 -	
-Control & SKRV	3326	3326	3326	0	
-Others					
5.Mince.Facilitie	» O	0	0	Ŏ.	
	81726	81726	81726	0	
Sub-total	71867				i
(TC)					
(rc)	9859				
7.Misce.Expense	4086				
8. Engineering & S					
9.Contingencies	6173				
10 Import Duties	3110				1
11. Value Added Ta	× 6078	5078	6078	0	
Sub-total	29168	29168	29168	0	
TOTAL (1000 Baht)	110894	110894	110894	. 0	
FC	79354	78777			
ič	79354 31540	32117			
TOTAL (1000 US \$)	4436	4436	4436	0	
	3174				
rc .	1262				
LC	1202	1283	1140		
	~~~~		+		-~

	BANG PHLI	2005			Thousand Baht	
	-Number of Bay : -Number of Line: -Number of Bank: -Type :	230 kV 0 0 0			One and a half 500 kV 0 0 0 Al-pips GIS CONV.	0
1 1 1	1.Land Acquisition 2.Land Improvement		0	0	0	0
1	3.Poundation Work -flua -Transformer	0	0 0	0 0 0	0	0 0
I 1 1	-Trench 4.Control Building		- 0	0		0
1	5.Equipment -GIS -Steel Structure -Niaca, hardware	, σ	- 0	0	- 0	0
i 1 1	-Transformer -Circuit Breaker -Disconnect, Swit	. 0	0		0 0 - 0 -	ŏ
ī 1	-Instrument Tran -Control & SERV. -Others	Ō	0	• 0	0 -	o
1	5.Misca.Facilities	0	0	0	0	0
	Sub-total (PC) (LC)	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
ı	7.Miscs.Expanse 8.Engineering & 6V 9.Contingencies	. 0	0	0	0 Q 0	0 0 0
	10.Import Duties	0	0	. 0	0	0
	Sub-total	0	0.	0	ø	0
	TOTAL (1000 Baht) PC LC	0 0 0	0 0	0 0 0	0 0 0	0 0 0
	TOTAL (1000 US \$) PC LC	0	0	0	0 0 0	0

	BANG PHLI	2001			Thousand	Baht
	-Bus System :	0			One and a	. 11.01.0
		230 kV			500 kV	1 11011
	-Number of Bay :				300 20	
	-MUMBER OF BRY I	ŏ			ŏ	
	-Number of Line:				ŏ	
	-Number of Bank:			A75	Al-pipe	***
	-Type t	CONV.	A1-plps INV.	GIS	CONV.	410
ı	1.Land Acquisiti	on 0				
l	2.Land Improveme	nt O	. 0	o	0.	
	3. Poundation Wor					
1	~ចំបន	0	0		0	
t	~Тгапа¢ог ≃а г	0	0	0	0	
ı	-Tranch	0			. 0	
i	4.Control Buildi	ng 0	. 0		0	
1		-	-	0	-	
	5.Squipment	0	0		0	
1	-G18		-	0		
ŧ	-Steel Structu				. 0	
L	-Miscs: hardwa					
ı	Transformat	. 0			0	
l	-Circuit Break				0	
ı	-Disconnect.Sw				0	-
1	-lostrument Tr				Þ	-
l	-Coatrol & SER	v. 0	0	Ö	0	
ì	~Others					
ŀ	5.Nisce.Paciliti		0	.0.	0	
	8ub-total	. 0				
	(PC)	. 0				
	(LC)	0				
	7.Mince.Expense				0	
	8. Engineering 6					
1	9.Contingancies	0			0	
1	10. Import Duties				0	
1	11.Velue Added Y		<u> </u>		0	
	Sub-total	0	. 0	0	0	
	TOTAL (1000 Babt) 0	0	0	0	
	PC	0				
	LC	0	0	0	-	
	TOTAL (1000 ES 0	0 0	0			
	FC.	0				
	LC	Ų	v	ν	v	

	BANG PRLI		2011			Thousand	Beht	
	-Number of Bay -Number of Line -Number of Bank	:				One and of 500 kV O O O O O O O O O O O O O O O O O O		
1	1.Land Acquisit	ior	0	0		0	0	-
1	2.Land Improvem 3.Poundation Wo			380	28	0	0	
1	-Dua		2506	2506	752	0	0	,
1	-Transformer		0	Q	0	٥	0	
ı	-Trench		0	0	0	0	0	
1	4.Control Build	ing	. 0	0	. 0	0	0	,
1			-	_	D	-	0	
ì	5.Equipment		37074	41039	47318	0	0	
1	G1 B		-		39475	_	0	
1	-Steal Struct				438	0	Ó	
1	-Misca. hardw	814		6549	400	0	Ò	
1	-Transformer		0		0	0	0	/
1	-Circuit Bres	ke r	11190		-	0	-	
1	-Disconnect.8	wit	4761	4761	-	0	-	
1	-Instru⊫aut T			8613		0	-	
1	-Control & SE	R۷.	7005	7005	7005	0	0	
1	~Other# 6.Misce.Pacilit	ias	. 0	. 0	0	0	0	ŀ
		~ · · ·						-
	8ub-totel		39875			ō	0	
	(PC)		33340				0	
	(LC)		6535				0	
	7.Misce.Supense	٠	1979	2177		0	0	
:	8. Engineering &	, pr	2791	3075			ő	
ï	9.Contingencies 10.Import Dutie		3988 4848	4393		0	ő	
:	11.Value Added	•	1016	5998 3468	4319 3660	ő	0	
ı	TT'ANTER WOODS	10.	3110	3400	3000		U	_
	Sub-total		16716	19111	18568	G	0	_
	TOTAL (1000 Bah	t)	56591	63036	66866	Ö	o	
	TC .	-,	36955			ō	ō	
	ic		19636			ŏ	. 0	
								~
	TOTAL (1000 US	8)	2264	2521		0	0	
	rc .		1478			Ø	0	
	rc		785	963	697	0	0	

TEPARAX	1997			Thousand Baht	
-Bus System : -Voitage :) One and (230 kV	a half		One and a helf	- •
-Rumber of Bay ;	6			Ö	
-Number of Line:	. 4			Ō	
-Number of Bank:				. 0	
-Type :	Al-pipa CONV.	Al-pipe INV.	GIB	Al-pipe GIS CONV.	
1.Land Acquisition	2443	3046	536	0	-
2.Land Improvement	1772	2278		.0	
3. Poundation Work					
-Bus	15038		4511		
~llaugicimer	5200 1306	5200			
-Trench	1305	1305			
4.Control Building	19200	19200			
F. Wasterman	380199	403988	420710		
5.Equipment -GIS	390144	403460	439710 236850		
-Steel Structure	13877	17523	2528		
-Nisca hardware	19151		1600		
-Transformer	148000	148000			
-Circuit Branker	67140	57140		ď ~	
-Disconnect.Swit	28566	28566	_	ŏ ~	
"Instrument fran	52833	52833	- ·	ŏ -	
-Control & SERV.	50632	50632	50632	ō	
6.Misca. Facilities		22720	22720	. 0	
Sub-total	447878			0	•
(PC)	344114	355067	410553	0	
(LC)	103764	117709	82799		
7. Misce. Expense 6. Engineering & SV 9. Contingencies 10. Jeport Duties	22183	23373	24632		
B.Engineering & SV	31351	33094	34535		
9.Contingencies	44788	47278	49335		
10.Import Duties 11.Velpe Added Tex	39196	46097			
			.~~~~~		
Sub-tote1	171316	183791	181222	. 0	
TOTAL (1000 Baht)	619196	658567	674574	0 ·	
*C	385293	397453			
1C			217602	0	
TOTAL (1000 UE 8)	24768	26343			
rc `	15412				
I.C	9356	10445	8704	0	

	TSPARAK	2006			Thousand I	9aht
	-Voltage : -Number of Bay : -Number of Line: -Number of Bank: -Type :	One and 230 kV 0 0 1 1 Al-pips CONV.	•	GIS	One and a 500 ky 0 0 0 0 Ni~pipa (CONV.	
1	1. Land Acquisition 2. Land Improvement		0	0	0	0
1 1 1	3, Foundation Work -Bus -Transformer -Trench	200 1300 0	200 1300 0	1300	. 0	0
1 1 1	4.Control Bailding 5.Equipment -GIS	39363	99363 	0 0 39363 0	0	0 0 0 0
1111	-Steel Structure -Hisco, hardware -Transformer -Circuit Breaker	200 37000 0	500 200 37000 0	500 200 37000	0 0	0
1 1 1 1	-Disconnect.Swit -Instrument Tran -Control & BERV. -Others	0	0 0 1663	1663	0 0 0	- - 0
1	6.Misos.Pacilities	0	0	0	·	0
	Sub-total (FC) (LC) 7.Misco.Expense	40863 35934 4929 2043	40863 35671 5192 2043	40863 35671 5192 2043	0 0 0	0 0 0
1	8.Engineering & 8V 9.Contingencies 10.Import Buties 11.Value Added Tax	4086 2555	2860 4086 2555 3039	2860 4086 2555 3039	0 0 0	0 0 0
	Sub-tot#1	14583	14583	14583	0	0
	TOTAL (1000 Baht) FC LC	55446 39677 15769	55446 39388 16038	55446 39389 16058	0 0 0	0
	TOTAL (1000 US 8) FC LC	2218 1587 631			0 0	0 0

-Bus System : One end a helf -Voltage : 230 kV -Number of Say : 0 -Number of Line: 0 -Number of Line: 0 -Number of Bank: 0 -Type : Al-pipe Al-pipe GIS Al-pipe GIS -Type : Al-pipe Al-pipe GIS Al-pipe GIS -Type : Al-pipe Al-pipe GIS Al-pipe GIS -Type : Al-pipe GIS CONV. - Dus	-Bus System : One and a helf -Voltage : 230 kV -Number of Bay : 0 -Number of Line: 0 -Number of Bay : 0 -Number of Bank: -Type : Al-pipe Al-pipe GIS -CONV. INVCONV. 1. Lend Acquisition 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ARAK	2001		Tho	usend Bah	t
2.Land Improvement 0 0 0 0 0 0 0 3. Foundation Work -Bus: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2. Land Improvement 0	itage : mber of Bay : mber of Line: mber of Banks	One and a hal 230 kV 0 0 0 Al-pipa Al-p	f ipe GIS	5: A1~;	and a ha 00 kV 0 0 0 pipe GIS	1£
3.Foundation Work -Bus 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3.Foundation Work -Bus 0 0 0 0 0 -Transformer 0 0 0 0 0 -Transformer 0 0 0 0 0 4.Control Building 0 0 0 0 5.Equipment 0 0 0 0 0 -GIS 0 0 0 0 0 -GIS 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 0 0 0 -Transformer 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
-Bus - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-Bus	oundation Work		v	U	0	
-Trench 0 0 0 0 0 0 0 4.Control Building 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-Trench -Trench -Trench -Trench -Total -Tota	996:					
4.Control Building 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4.Control Building 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
5.Equipment	5.Equipment						
-GIS -Steel Structure -	-GIS -Steel Structure -Steel Steel Steel Steel -Steel Steel Steel Steel -Steel Steel Steel Steel Steel Steel Steel -Steel Steel		- _		Ó	-	
-Steel Structure 0 0 0 0 0 0 - Hisce. hardware 0 0 0 0 0 0 0 - Cransformer 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-Steel Structure 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	quipaent cre	0.	- 0		. 0	
-Transformer 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-Transformer 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		. 0	0		. 0	
-Circuit Breaker 0 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 0 0 - 0	-Circuit Breaker 0 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -						
-Disconnect.Swit 0 0 - 0 - 0 - 0 - 1 - 1 - 1 - 1 - 1 - 1	-Disconnect.Swit 0 - 0 - 0 - 0 - 0 - 1 - 0 - 1 - 0 - 1 - 0 - 0				0		
-Control & SERV. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-Control & SERV. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Disconnect.Swit	. 0				_
-Others -Others OMScarpscilities OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	-Others -Others O. Misca. Facilities O. O	Instrument Tran	, o				•
5.Misca.Facilities 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5.Misca.Facilities 0 0 0 0 0 Sub-total 0 0 0 0 0 0 (FC) 0 0 0 0 0 0 7.Misca.Expense 0 0 0 0 0 0 8.Engineering & SW 0 0 0 0 0 9.Contingencies 0 0 0 0 0 0 10.Import Duties 0 0 0 0 0 Sub-total 0 0 0 0 0 TOTAL (1000 Beht) 0 0 0 0 0 TOTAL (1000 US 9) 0 0 0 0 FC 0 0 0 0			0	O.	0	
Sub-total	Sub-total	iscs. Pscilities	0	0	0	0	
(LC) 0 0 0 0 0 0 0 0 0 0 7. Misca, Expanse 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(LC) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	0	0	0	
7.Misca.Repease 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7.Misca_Kspense						
8 Engineering & SV 0 0 0 0 0 0 0 9 9 Contingencies 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 Engineering & SV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
11.Value Added Yex	11.Velue Added Tex			Ō	ġ	ō	
11.Value Added Yex	11.Velue Added Tex	ontingencies	0				
Sub-total 0	Sub-total	Value Added Tax	. 0	Õ			
FC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0	0	
LC 0 0 0 0 0 0 TOTAL (1000 US \$) 0 0 0 0 0 PC 0 0 0 0	LC 0 0 0 0 0 TOTAL (1000 US \$) 0 0 0 0 0 PC 0 0 0	AL (1000 Baht)					
TOTAL (1000 US \$) 0 0 0 0 PC 0 0 0	TOTAL (1000 US \$) 0 0 0 0 0 PC 0 0 0 0						
PC 0 0 0 0	PC 0 0 0 0		~				
LC 0 0 0 0		FC LC AL (1000 US \$) FC	0 0 0 0	0 0 0 0	0 0	0	
			• •				
					-		

	TEPARAK	2011			Thousand E	laht
	-Voltage :	One and a	0 helf		0 One mad a 500 kV	0 hali
	-Number of Bay : -Number of Line: -Humber of Bank:	0 1			0	
		Al-pipe CONV.	NA.	GIS	Al-pipe O CONV.	18
1	1.Land Acquisition	0	0		0	0
1		ō	0	0	0	0
1	~Bos	200	200	200	0	0
1	-Transformer	1300	1300		0	0
1	-Treach	0	0	0	0	0
1	4. Control Building	- 0	- 0	0	_ 0	0
1	5.Equipment	39363	39363	39363	0	Ó
1	~G18	_	-	0	-	0
1	-Steel Structure		500	500	0	0
1	-Misce. hardware		200	200	0	0
1	-Transformer	37000	37000	37000	0	0
1	-Circuit Breaker		0	-	0	-
1	-Diaconnect.Swit		0		Ō	-
ì	-Instrument Tran		0	7	0	
1	-Control & SERV,	1663	1663	1663	0	0
1	6.Misce.Feoilities	. 0	0	. 0	0	0
	Sub-total	40853	40863	40863	0	0
	(PC)	35934	35671	35671	0	0
	(rc)	4929	5192	5192	0	0
	7.Misca.Expanse	2043	2043	2043	0	0
1	8.Engineering & SV	2860 4085	2860		0	0
)	9.Contingencies	4085	4086		0	0
1	10.Import Dutles	2555		2555	0	0
1	11.Value Added Tax	3039	3039	3039	0	0
	Sub-total	14583	14583	14583	0	Q
	TOTAL (1000 Baht)	55446	55446		0	0
	7C	39677	39368	39388	0	٥
	LC	15769	16058	16058	0	0
	TOTAL (1000 US 8)	2218	2218	2218	0	0
	PC	1587	1376	1576	ŏ	0
	lč	631	642	642	ň	ŏ
						· u

	CHAENG WATTHANA	1997			Thousand	Bant
	-Voltage : -Number of Bay : -Number of Live: -Number of Bank: -Type	One and 1 230 kV 4 4 2 Al-pips CONV.		cta	One and a 600 kV 0 0 Al-pipe	

1	1.Land Acquisition 2.Land Improvement		0 1519	0 113	0	0 0
1	3.Foundation Work	10025	10025	3008	0	0
1	-Transformer	2600		2600		ŏ
î	-Tranch	2000	2000			ŏ
i	4.Control Building	Ď	·ŏ		ă	ő
i	T.CONC.OZ DELIGINA			0		ŏ
ī	5. Equipment	225623	241482	266200		ŏ
ī	-G18		_	157900		ŏ
1	-Stoni Structure	9251	11682		D	Ó
1	-Misca, hardware			1200	0	0
1	-Trensformer	74000		74000	0	0
1	-Circuit Breaker	44760	44760	٠.	0	-
1	-Disconnect.Swit	19044	19044	-	0	-
1	-Instrument Tran	34452	34452		0	-
1	-Control & SERV.	31348	31348	31348	0	. 0
1	-Others	_	_		_	_
1	6.Misca.Facilities	. 0		. 0	0	0
	Sub-total	239429	255626	271921	0	0
	(PC)	204047	244240	240164		ŏ
	(LC)			22770		ō
1	7 Miene Evnense	35382 11912		13590	Ó	0
ì	6.Reginsaring & SV	16760	17894	19034	Ö	ō
1	6. Engineering & SV 9. Contingencies	23943	25563	27192	O	0
1	10. Import Duties	24130	28732			0
1	11. Value Added Tax	18366	19798	20559	0	0
٠,	Sub-total	95111	104692	102272	. 0	0
	TOTAL (1000 Beht)	334540	360318	374193	ø	o
	PC	225832	233899			Ď
	LC	108708	126419	99555	0	Ú
	TOTAL (1000 UE 6)	13382	14413	14968	0	
	PC (1000 dB #)	9033				ő
	LC	434B	5057		0	ŏ
		****			-~	

	CRANNG WATTBAKA	2006			Thousand B	aht
	-Bus System : -Voitage : -Wander of Bay : -Mumber of Line: -Number of Back: -Type :	One and a 230 kV One Al-pipe CONV.			One and a 500 kV O O O Al-pipa G CONV.	O half
1	1.Land Acquisition 2.Land Improvement 3.Poundation Work		0	0	0	0
1	-Pus -Transformer -Transformer	0	0	0	0 0 0	0
î	4.Control Building		. 0	0	- 0	0
1	5.Equipment -GIS -Steel Structure		~ 0	0 0 0	. 0	0
1	-Misca. hardware -Transformer -Circuit Breaker	0	0	0	0 0 0	0
ì	-Disconnect.Swit -Instrument Tran -Control & SERY.	. 0	0	- 0	0 0 0	- 0
1	-Others. 6.Hiscs.Pacilities		. 0	0	0	ø
	Sub-total (PC)	0	0	0	0	0
1	(LC) 7.Hisca.Expanse 8.Engineering & SV	, 0	0 0 0	0 0 0	0 0 0	0 0 0
1	9.Contingencies 10.Laport Duties 11.Value Added Tax	. 0	0 0 0	0 0 0	0 0 0	0 0 0
	Sub-total	0	0	0	. 0	0
	TOTAL (1000 Sabt) FC LC	0 0	0 0 0	0 0 0	0 0 0	0 0 0
	TOTAL (1000 US \$) FC LC	0	0	0	0	0
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CHARNG WATTRANA	2001		-	Thopsand B	aht
**************************************	0	0		0	0
-Boe System :	One and a	h#lf		a bna eac	hsif
-Voltage :	230 kV			500 kV	
-Number of Bay:	0			0	
-Number of Lines				0	
"Number of Bank;				Đ	
-Туре :	Al-pipe CONV.	Al-pipa IXV.		Al-pipe G CONV.	116
1 1.Land Acquisitio	on O	0	0	0	0
1 2.Land Improvement	ıt O	0	0	0	0
1 3. Foundation Work					
l -Bun	200				. 0
1 -Transformer	1300	1300			· 0
1 -Trench	0	0			- 0
1 4.Control Buildin	, a 0	_ 0	0	. 0	. 0
1 5.Kquipment	39363	39363	39363	0	0
1 -GI6				~	ŏ
1 -Steel Structur	e 500	500	500	0	. 0
1 -Miscs, hardwar				ō	ò
1 -Transformer	37000	37000			ä
1 -Circuit Breake	r 0	0	~	Ö	-
1 -Circuit Breake 1 -Disconnect.Bwf	t o	. 0	÷ '	Ó	-4
1 -Instrument Tra	in D	. 0		Ō	-
1 -Control & BERN 1 -Others	r. 1663	1663	1663	0	0
1 6.Misca.Facilitie	 0	0	0	0	0
8mb-total	40863				o
(PC)	35934				0
(rc)	4929 2043	5192		ø	o o
1 7.Misce.Expense	2043	2043		o	0
1 8.Engineering & 8 1 9.Contingencies 1 10.Import Duties	2860	2860		0	0
1 y.Contingencias	4085	4086		0	0
I IV. Import Dutles	Z355	2555		0	Ŏ
1 11. Value Added To	3039	3039	3039	0	0
Sub-total	14583	14583	14589	0	0
TOTAL (1000 Baht)	55446	55446			. 0
PC	39677	39388	39388		0
LC .	15763	16058		0	0
TOTAL (1000 US #)	2218 1587	2718 1576			0
7 C	1301	10/0	1376	0	0
I.C.	531	642	642	0	0

	CHARIG WATTRAMA	2011			Thousand Baht	
Ō	-Voltage : -Number of Bay : -Number of Line: -Number of Bank: -Type :	Ope and a 230 kV Ope	0 half Al-pipe INV.		One and a half 500 ky 0 0 0 0 At-pipa Gis CONV.	0
0	1 1.Land Acquisition 1 2.Land Improvement 1 3.Poundation Work		0	0	0	0
0 0 0	1 -Bus 1 -Transformer 1 -Transformer 1 -Transformer 1 -Transformer 1 4.Control Building	200 1300 0 0	1300	1300	0	0
0 0	1	39363	39363 500	39363 0	- 0 - 0	0
o o	1 -Nisca hardwarm 1 -Transformer 1 -Circuit Breaker 1 -Disconnect.Ewit	200 37000 0 0	200 37000 0 0	200	0 0 0 -	0
0	1 -Instrument Tran 1 -Control & SERV. 1 -Others 1 6.Misce.Facilities	1863		1663 0	0 ^	0
0	Sub-total (PC)	40863 35934	40863 35671		0	0
0 0 0	(LC) 1 7.Misce, Expense 1 6.Engineering & SV 1 9.Contingencies	4929 2043 2860 4086	5192 2043 2860 4086	5192 2043 2860	0 0 0	Q Q Q Q
0	1 10.Import Duties 1 11.Yalus Added Tex	2555	2555	4086 2595 3039	0	0
0	Sub-totel TOTAL (1000 Baht)	14583 55446		14583 55446	0	0
0	FC LC	39677 15769	39388	39388 16058	0	0
0 0	TOTAL (1000 DS 8) FC LC	2218 1587 631	2218 1576 642	2218 1576 642	0 0 0	0
***	***********	******		********		

WANG NOI	1997			Thoughnd	Baht		WANG
	1	0		0		0	******
	one end	a half		One and			~Ba\$
-Voitage :	230 kV			500 kV			-Volt
-Number of Bay :	- 6			ō			~Ku#b
-Number of Line:	4			0			- Nuab
-Number of Benk:	1			. 0			-None
	XI-DIDO XXV.	Al-pipa INV.		CONV.	GIB		-Тура
1.Land Acquisition	2443	3046	536	0	-,,	0	1 1,Lan
2.Land Improvement	1772	2278	169	Ó	100	Ò.	1 2 Lan
3. Foundation Work							1 3. Fou
~Bus	15038	15038	4511	0		O	1 ~Bu
-Transformer	1300	1300	1300	0		Ó	1 -tr
-Treach	1306	1306	1306			0	1 -Yr
4. Control Building	19200					0	1 4.Con
# wasterman	254210		0 323121			. 0	1
5.Equipment -GIS	104110	20/777				ŏ	1 5.Equ 1 -GI
-Steel Structure						ő	1 -8t
-Nisca. hardware						ŏ	1 -Ki
-Yransformar	37000					ň	1 -77
-Circuit Breaker				ŏ		-	i -ci
-Disconnect.Swit	28566	28566		. 0			î -Di
-Instrument Tran	52833	52833		0	·		i -In
-Control & SERV.	15643	45543		Ó		0	1 ~Co
-Others		4					1 -0t
6.Hisca.Facilities						0	1 6.His
Bub-total	327989	352867	372863	٥		0	8ub
(PC)	238083					Ò	
(LC)	89906		68840			. 0	
7.Misca.Expense	16189	17378				0	1 7.Hia
S.Engineering & 8V	22959	24702				ā	18. Kng
8.Engineering & 8V 9.Contingencies 10.Import Duties	32799	35789				0	1 9.Con
iu.import Duties	32085	38988				0	1 10.Im
11.Value Added Tex		27038			A		1 11.Va
Sub-totel	128944	143415	138487	. 0		0	80b
TOTAL (1000 Baht)	456933					٥	TOTAL
PC	268269					0	FC
LC	188684					0	tc
TOTAL (1000 DE \$)	18277	19852				0	TOTAL
YC	10731					ŏ	PC
	7547					à	LC

		WANG NOI	2006			Thousand	Beht
0		-Voltage : -Mumber of Say : -Number of Line:	0 One and 1 230 kV 0 2	o m half		0 One and 5 500 kV 6 8	n helf
		-Number of Bank: -Type :	Al-pipe CONV.	Al-pips INV.	GIS	Al-pipe CONV.	GTS
0		1.Land Acquisition	0	0	0	0	
Ŏ.	1	2.Land Exprovement 3.Foundation Work		ő		4820	473
0	1	~Bus	400	400	400	19560	5868
Ó	ī	-Transformer	ő	Ö	ō	11700	11700
0	ī	-Yrench	ŏ	ŏ	ŏ	0	0
0	1	4. Control Building	ŏ	ŏ	ŏ	ő	ŏ
Ó	1		-	_ `	ō		4875
, 0	1	5.Equipment	1400	1400	1400	1085512	1260018
0	1	~GI6	-	~	0		724140
0	1	-Steel Structure	1000	1000	1000	18040	2706
0	1	-Kiace, hardware	400	400	400	97500	3300
0	1	~Transformer	0	0	0	333000	333000
	1	-Circuit Breaker	. 0	0	-	210780	
	1	-Disconsect.Swit	0	0	-	101340	•-
•	1	-Instrument Tran	Ö	Ö	•	127980	_
0	1	-Control & SERV.	0	0	0	196672	196872
0	3	6. Hisca, Pacilities	0	0	0	0	. 0
0		Sub-total	1800	1800	1800	1121592	1282934
0		(FC)	1180	655	635	967689	1170594
. 0		(LC)	520	1145	1145	153903	112340
0	1	7. Histo Expense	90	90	90	55839	64123
O.	1	8. Engineering & SV	128	126	126	78511	89805
0	1	9.Contingencies	180	180	180	112159	128293
0	1	10.Import Dutles	371	371	371	125869	111090
0	1	11. Value Added Tex	152	152	152	86985	97549
0		Sub-total	919	919	919	459363	490860
٥		TOTAL (1000 Bant)	2719	2719	2719	1580955	1773794
ŏ		PC PC	1338	760	760	1068066	1289945
ŏ		ic	1381	1959	1959	512889	483849
0		TOTAL (1000 US #)	109	109	109	63238	70952
0		PC .	54	30	30	42723	51598
0		LC	55	78	78	20516	19354
		~~~~~~~~~~~~~					

-	WANG NOI	2001			. <b>T</b>	housend Bah	t
	-Voltage -Number of Bay : -Number of Line: -Number of Bank: -Type :	One and a 230 kV O 0 0 0 Al-pipe CONV			- A	0 ne and a ha 500 kV 0 0 t-pipe GIS	
1 1 1	1.Land Acquisition 2.Land Improvement	0	Ċ		0	0	0
1	-Bug	. 0		)	٥	0	0
i.	-Transformer	Ŏ	Č		ŏ	ō	· õ
1	-Tresch	Ó	Č	)	Ò	0	Ó
1	4.Control Building	. 0		)	ō	Q	0
1		-	_		0	-	0
1	5.Equipment	0		)	o.	0	0
1	-G16		- ,		0		Ó
1	-Steel Structure -Miscs, bardware		(		0	0	0
í	-Transformer	. ö	ò		ó	ŏ	ŏ
î	-Circuit Breaker			)	٠	ŏ	
ì	Disconnect Swit		č			ŏ	-
ī	-Instrument Trac	. 0	(	) ~		٥	-
1	-Control 6 SERV.	0		)	٥	Ó	0
1	-Others 6.Misca.Facilities		C	)	0	0	0
	Sub-total	0.				0	0
	(PC)	.0			ő	ŏ	ő
	(rc)	. 0	ì		ŏ	ŏ	ŏ
1	7.Misca.Expanse	ő	ì		ŏ	ŏ	ŏ
1	8.Engineering & 6%	ľ	. (		ō	ŏ	ō
	9.Contingencies	0	. (	)	0	O O	0
	10 Import Duties		•		٥	0	0
1	11.Value Added Ter	c 0		) :	0	0	0
	8ub-total	0	(	)	0	0	0
	TOTAL (1000 Baht)	.0	r c	)	Q	0	Ó
	rc	. 0	Č		ō	ō	Ó
	f.C	Ó	(	)	0	0	0
	TOTAL (1000 US 8)	0			Ó	0	
	PC (1000 00 8)	ŏ			ŏ	ŏ	ŏ
	tč	ŏ	Č		ŏ	ŏ	ă
		4 to to to 40 as at at a	**************************************				

	WANG NOT	2011			S bnasaod?	aht
0			0		0	0
	-Bus System :	One and	e half		s bas and	balf
	-Voltage :	230 kV			500 kV	
	-Number of Pay :	0			o	
	-Number of Line:	ŏ			ň	
	-Number of Banks	ŏ			ň	
			Al-pipe	OIS	Al-pipe G	**
		CONV.	IKA.	410	CONV.	
0	1 1.Land Acquisition	. 0	0	0	0	0
0	1 2. Land Improvement	0		ō		õ
	1 3. Foundation Work	. •		•	v	v
0	1 -Bus	0	0	0	0	0
. 0	1 -Transformer	ŏ		ŏ	ŏ	ŏ
ŏ	1 -Trench	ň	ő	ŏ	ő	ő
ő	1 4.Control Building		ő	o o	ŏ	-
ŏ	i arcounted particing		U	Ü	U	0
ŏ	1 5.Equipment	- 0		0		
ŏ		v	0	ů	0	0
ŏ		<del>-</del> .				0
ŏ	- 0.001 001001010			0	0	Q
ŏ	1 -Kiaca, hardware			0	0	Ō
U	1 ~Transformer	0	0	0	o o	Û
	I -Circuit Breaker		0	-	Ģ	-
	1 -Disconnect.Swit		0	~	ō	-
	1 -Instrument Tran		0		0	-
0	I -Control & SERV.	0	0	0	0	0
_	1 -Others					
0 	1 6.Misce.Fecilities		0	0	0	0
0	Sub-total	0	0	0	0	0
0	(FC)	Ó	ō	ŏ	ŭ	ō
0 0 0	(LC)	·ä	ő	ŏ	ŏ	ò
0	1 7.Misca.Expensa	ň	ō	ŏ	ŏ	ŏ
Ō	1 8. Engineering & SV		ŏ	ŏ	ŏ	ŏ
ò	1 9.Contingencies	ŏ	ŏ	ŏ	ŏ	ŏ
ō	1 10. Japort Duties	ŏ	ŏ	ŏ	ŏ	ŏ
ŏ	1 11. Value Added Tax		ŏ	ŏ	ŏ	ő
0	Sub-total	0	0	0	0	0
ò	TOTAL (1000 Baht)	0	0	0	0	0
0	FC	0	Ö	0	Ò	Ö
0	ič	Ó	Ó	0	ō	Ď
0	TOTAL (1000 US \$)	0	0	σ	0	0
0 0	TOTAL (1000 US \$)	0	0	0	0	0

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	CHIDLOH				Thousand B	sht
	-Bus System : -Voltage : -Number of Bay : -Kumber of Line: -Kumber of Bank; -Type :	One and o 230 kV 0 0 0 0 Al-pipe CONV.	0 half Al-pipe inv.	GI8	One and a 500 kV 0 0 0 Al-pipe G	o nelf
1111	1.Land Acquisition 2.Land Improvement 3.Youndation Work -Bus -Transformer	t 0 0	0 0	0	0	0
1	-Trench 4.Control Building	· •	0	0	0	0 0 0
11111	5.Equipment -GIS -Steal Structure -Hisco, hardware -Transformar -Circuit Breaks	• 0	0 0 0	0 0	. 0 0 0	0 0 0
11111	-Disconnect.6wi -Instrument Tran -Control & SERV -Others 6 Misca.Pacilitis	0	0 0	0	0 0	0
	Sab-total (FC) (LC) 7.Hisca.Bxpense	0 0 0	0	0	0 0 0 0	0 0 0
1	8.Engineering E 6 9.Contingencies 10.Import Duties 11.Value Added Ya	0	0 0	0 0 0	0 0 0 0	0 0 0
	Sub-total TOTAL (1000 Daht) FC	0 0 0	0	0	0 0 0	0 0 0
	LC TOTAL (1000 US \$1	0	0	0	0	0
	FC LC	0	0 0		0	0

	SATU PRADIT				Thousand	Baht	
•	⊣Bus System ;	One and		,	One and		0
	-Voltage :	230 kV			500 kt		
	-Number of Bay ;	0	)		C		
	-Mumber of Line: -Mumber of Bank:	0			g	!	
			Al-pips	rit s	Al-pipe	CTE	
•		COXV.	INV.	0.0	CONV.	014	
	1 1.Land Acquisition			*D			n -
	1 2.Land Improvement	Ŏ	Ò				ŏ
	1 3. Foundation Work						
	1 -Bus	Õ	• 0				0
	1 ~Transformer 1 ~Tranch	U A	. 0	. 0			2
	1 4.Control Boilding	ñ	'n	ň	ň		
	1	~	- *	ŏ	~ ~	ì	Ď
	1 5.Equipment	0	0	Ō	. 0	. (	2
	1 -GIS 1 -Steel Structure	- ^		0		. (	0
•	1 -Kieca, hardware		. 0				
	1 -Transformer	Ö	ŏ		ŏ		ś
	1 -Circuit Breaker		o	-	Ó	-	
	1 -Disconnect.Swit		~	. •	ō	-	
	1 -Instrument Tran 1 -Control & BERV.	0			0		
	1 -Others	v	U	Ū	U	,	,
	I 6. Misce. Facilities	0	0	0	٥		)
	Sub-total	0	0	0			1
	(PC)	ŏ		. ŏ	ō	à	
	(rc)	0	0	- 0	Ò	. (	)
	1 7.Mince,Expense 1 8.Engineering & SV	ŏ	0	0	ō	9	
	1 9.Contingancies	, A	ű	ň	0	. (	
	1 10 Import Duties	ŏ	0	ő		č	
	1 11. Value Acced Tax		-				
	Sub-total	0		0	0		)
the second second	TOTAL (1000 Baht)	0	0	Đ	0	(	,
•	FC	ŏ					ź
	LC	ō	ō		ō	ē	•
	TOTAL (1000 US 6)	0	0	0	0		3
	rc	ŏ	ŏ	ō	ŏ	Ċ	
	rc	0	Ó	Ó	Ö		3
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	1997		~~~~~	Thousand Babt	
		۸		0	
-Bus System : -Voltage :	One and	u helf		One and a half	!
-Voltage :	230 kV			500 kV	
-Humber of Hey :	0			0	
-Number of Line:	0			٥	
-Number of Bank:	0			ø	
-Rusber of Hey: -Number of Line: -Number of Bank: -Type:	CONV.	INV.	GIS	Al-pipa GIB CONV.	
1.Land Acquimition 2.Land Improvement	0	0	0	0	
2. Land Improvement		ŏ			- 1
3. Foundation Work		•		•	
-Bos	0	0	0	0	
	ő	ŏ			
-Transformer	. 0	ŭ	ň	Ž.	- 1
-Trench	0				
4.Control Building	, 0	0			-
<u> 2                                   </u>	-	<b>▼</b> .	0		
5.Equipment	0	0			
CIS		-	0		-
-Steel Structure	. 0				
-Steel Structure -Misce, hardware	. 0				
-Transformer	. 0				
-Circuit Braska		. 0		û -	•
-Disconnect.Swit	. 0	0	-	0 -	-
-Instrument Truc	: 0	. 0		0 -	
-Control & SERV	ň	ō	G		
-Disconnect.Switt- Instrument Tras- Control & SERV. -Others	. •	-	•	•	
6.Misca.Facilities	. 0	0	0	0	
			_	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Sub-total	C		0	٥	
/=A\				Ō	1
(FC)	ŏ	ŏ		ŏ	i
7. Niene Kynenee		ŏ			
A Engineering C at	, ň	ŏ			
0 Continuenting B.O.		ŏ			
10 Tenant Duties	V	0	Č		
(LC) 7.Nisce.Expense 8.Engineering & 8/ 9.Contingencies 10.Import Dutics 11.Value Added Tax	, ,	, ŏ			
TI'ABIDE NOGER IN		. V			
Sub-total	. 0	0			•
TOTAL (1000 Baht)	Ò	Ō	0	0	
FC	ò	0	ó	Õ	
TOTAL (1000 Baht) FC LC	ō	ō		. 0	
MONIE /1000 TO 61	~~~~~~~				
TOTAL (1000 US \$) FC	ŭ	0		ő	
LC .	ă	. 0	ŏ		
			·	· · · · · · · · · · · · · · · · · · ·	
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				*************	
<a> 5.8.</a>	2001		~=~~~	Thousend Baht	
•	1	1		0	
-Bus Bystem : -Voltage :				Com and a held	₹

		<a> 8.8.</a>	2006			Thousand Baht	
0		-Bus System : -Voltage : -Number of Bay :	0nm and 1 230 kV	0 balf		One and a helf 500 kV	0
		-Rumber of Line; -Humber of Bank; -Type ;	Al-pipe CONV.	Al-pipe	GIS	0 0 Al-pipe GIS CONV.	
0	. 0	1. Land Acquisition	Ò	0	0	0	ø
0	i			0	٥	0	Ó
	3	3. Foundation Work					
0	1	មិបន	ō.	o	0	0	0
ő	1	Transformer	0	0	0	<u>o</u>	0
0	1	-Treach	0	ō	ō	0	0
0	1	4.Control Building	. 0	0	0	0	0
ŏ	;	5.Equipment	0	~ 0	ő	~ o	0
ŏ	•	-GIS		_ "	ŏ	, U	ŏ
õ	. 1	-Steel Structure	. 0	0	ő	0	ŏ
ō	î	-Misce. hardware		ŏ	ŏ	ŏ	ŏ
0	ī	-Transformer	ō	ŏ	ŏ	ŏ	ŏ
	ī	-Circuit Breaker	Ö	ō	•	ò ~	
	1	~Disconnect.Swit	. 0	0	-	0 -	
	1	-Instrument Tren		٥	-	0	
0	1 1	-Control & SERV.	ō	0	0	0	0
0	1	6.Misce.Pacilities	0	0	0	. 0	0
0		Sub-total	0	0	0	o	0
0		(YC)	0	ő	0	0	0
ŏ		(LC) 7.Misce.Expense	ò	0	0	ŏ	ŏ
ŏ		B. Engineering & EV		ŏ	ŏ	ŏ	ŏ
õ		9.Contingencies	ŏ	ŏ	õ	ŏ	ŏ
Ò		10.Import Duties	0	6	ō	ō	Ö
ð		11. Value Added Tex	. 0	0	. 0	Ō	Ð
ō		Sub-totel	0	0	0	0	0
0		TOTAL (1000 Beht)	0	Q	0	<u>o</u>	0
ö		FC	D	0	0	0	0
0		rc	0	0		0	0
0		TOTAL (1000 DB 8)	0	D	0	0	0
0		¥C .	0	0	0	0	0
0		LC	0	0	Q	0	0

	<a> 5.8.</a>	2001			Thousand !	Baht
	-Bus Bystem : -Voltage : -Number of Bay : -Number of Line: -Number of Bank:	6			0 Con mad m 500 kV 0 . 0	o helf
	-Typa :		At-pipe		Al-pips CONV.	GIS
i	1.Land Acquisition 2.Land Improvement 3.Foundation Work	1772				0
1		15038		0		Q O
1 1	-Tranch 4.Control Building	1306	1306	1308 19200	0	0
	5.Equipment -GIS	225546	249335	4875 285857 236850	0	0 0 0 0 0
	-Steel Structure -Kiece, herdware	13877	17523	. 2628	0	0
1		n	. 0	- '	ŏ	- 0
1 1 1	-Instrument Tra-	t 28566 n 52833 . 43979	28566 52833 43979	-	0 0 0	~ 0
1	-Othere 6.Misce.Pacilitie	s 22720	22720	22720	ð	0
	Sub-total (FC)	285582 202740	309877 213693	338538 269846		0
·. 1	2103			269846 68792 16923	0	0
1	7. Misco. Expense 8. Engineering & S' 9. Contingencies 10. Import Duties 11. Value Added Te	7 19991 28558	21691 30988	23705 33864	0	0 0 0
1		/			Ġ	0
	Sub-total	114405		126527	0	0
	TOTAL (1000 Baht) FC LC	399987 229017 170970	438649 241117 197532	465165 302109 163036	0 0 0	0 0 0
	TOTAL (1000 US S) FC LC	15999 9161 6839	9645	12084		0

		2011			**************************************	71466
	<λ> 8.8.	2011			Thousand	BADE
	-Bus System : -Voltege : -Number of Hay : -Number of Line;	0 One and a 230 kV 0 0	- 0 thair		One and a 500 kV O	0 half
	-Number of Bank:	ŏ			ŏ	
	-Type :	Al-pips CONV.	Al-pipa INV.	GIS	Al-pipe CONV.	GIS
n	1.Land Acquisition	ı 0	0	0	0	0
ì	2.Land Improvement 3.Foundation Work		ŏ	ŏ	ŏ	ŏ
î	-Bus	0	0	0	O	0
1	-Transformer	0	0	0	0	0
1	-Treach	Q	0	0	0	Q.
1	4.Control Building	, 0	0	0	0	0
ì	5.Equipment	- 0	٠ ٥	0	- ۵	0
i	-GIS	- 0	_ 0	ő		0
î	-Steel Structure	. 0	Đ	ŏ	0	ŏ
1	-Misca. hardware		ō	Ō	ō	ŏ
1	"Transformer	0	0	O	0	0
1	-Circuit Breaker		0	-	0	-
1	-Disconnect.Swit		o	-	0	-
1	-Instrument Tran -Control & SERV.		ņ O	- 0	0	_ 0
i	-Others		U	,	U	v
î	6.Minca.Pacilities	0	0	0	0	0
	8ub-total	0	0	0	0	0
	(PC)	ō	Ö	Ö	Ō	Ö
	(LC)	0	0	0	Q	0
	7.Miscs.Expense	٥	Ò	o	Đ	Ó
1	8. Engineering & 6	, 0	ō	0	0	0
	9.Contingencies	0	0	0	0	0
1	10.Import Duties 11.Valum Added Tex		ő	0	ŏ	ő
	Sub-total	0	0	0	0	0
	TOTAL (1000 Baht)	Đ	0	0	D	0
	PC	Q	0	0	0	0
	rc.	0	0	0	0	0
	YOTAL (1000 US 0)	0	0	0	0	0
	FC (1000 US T)	ŏ	ŏ	ŏ	ŏ	ő
	ič	ŏ	ŏ	ŏ	ŏ	ŏ

							•								
4															
<c> 8.8.</c>	1997			Th	ousand	Baht		<c> 5.B.</c>	•	2006			Thousan		
	0		0		0		0				(	)	*~~~~~	0	0
-Bus System : (	One and 230 kV				a and 500 kV			⊷Hus Sys ≁Voltage		230 kV	a haif		One and 500 k	a haif	
-Number of Bay :	ō				, o			zadatoK~	of Bay :	0			500 E	Ď	
-Number of Line: -Number of Bank:	. 0				Ď				of Line: of Bank;	0				0	
-Type : i	NI-pipe	Al-pipe inv.	GIS		-pipa NV.	G18		-Type		Al-pipm CONV.	Al-pipe	GIE	Al-pipa CONV.		
1.Land Acquisition			0	ō.	0		0		cquimition				) (		0
2.Land Improvement 3.Foundation Work	0	1	0	0	0		0		morovenent tion Work	t 0	C	•	0 (	D	0
-Boa	Ď		0	0	0		0	1 - Bus		0	0	,	) (	0	0
-Transformer -Tranch	0		0 0	0	0		0	1 -Trent	former	0	0		,	) 1	0
4.Control Building	ŏ		ŏ	ŏ	ŏ		õ		n 1 Building		0			)	0
5.Equipment			n	0	٠ ،		0	1 15.Equipa	an t	~ 0	- 0				0
-G18	_ `	-	•	ŏ	~ ~		Ŏ	1 -018	ent C	0		'	, .	,	0
-Steel Structure -Hisco. hardware	0		0.	0	0		0 n		Structure		ņ		}	)	0
-Yransformer	Ö		ŏ	ŏ	, ŏ		ŏ		. hardware formar	Ö	0		) (	, }	0
-Circuit Bresker			0 -	•	0	-			it Breaker		Ó		Ċ	-	-
-Disconnect.Swit	0		0 -		0	-			anmet.Swit www.nt Tran		0		(		
-Control & SERV.	ŏ		ŏ .	Ď	ŏ		0		ol & SERV.		ő		) (	,	Ó
-Others 5.Hisce.Facilities	0		0	0	o		o	1 -Other		. 0	0				
								******	*****				/ 	}	0
Bub-total (PC)	0		Ó D	٥	0		0	Sub-to	tai (FC)	. 0	0	,		)	0
(10)	ŏ		ŏ	Ö	ŏ		ŏ		(LC)	0	0			,	0
7.Hison, Expanse	0		0	0	Ó		Ö	1 7.Miscs.	Вхралав	ŏ	Ó	Ò	d	)	Õ
8.Engineering & 8V	0		D 0	0	0		0	1 8.Kogine 1 9.Contin	ering & SV	0	0	(		)	0
10. Japort Duties	. 0		ŏ	ő	ŏ		ŏ	1 10.Impor		ő	Ö			,	ň
11.Velue Added Tax	0		0 .	0	0		0	1 11.Value		0	0	Č	Ò	1	ō
Sub-totel	0		0	0	0		0	Sub→to		0	0		, ,		0
TOTAL (1000 Baht)	0		0	0	0		Ò		000 Baht}	0	0				0
PC LC	0		0	0	0		0	FC LC		0	0			1	0
~~~~~~~~~~															
TOTAL (1000 UB #)	0		0	0	0		0	TOTAL (1 PC	(\$ BU 000	0	0				0
LC	ŏ		Ď	ŏ	ŏ		ŏ	ĹČ		ŏ	ŏ				Ô
		-4				*= ~		*			·				

	<c> s.8.</c>	2006			Thousand Baht	
	-Hus System : -Voltage : -Number of Bay : -Humber of Line: -Humber of Bank : -Type :	One and a 230 kV 0 0 Al-pipm CONV			One and a hal 500 kV O O Al-pipe GIS CONV.	e o
111	1.Land Acquisition 2.Land Improvement 3.Poundation Work	0	0	0	0	0 0
1 1	-Bus -Transformer -Tranch	0 0 0	0	0	0 0 0	0
1 1 1	4.Control Building 5.Equipment -018	~ o	· 0	0 0 0	- °	0 0 0
1 1 1 1	-Steel Structure -Miscs. bardware -Transformer -Circuit Bresker	0	0 0 0	0	0 0 0	0
1 1 1	-Disconnect.Swit -Instrument Tran -Control & SERV. -Others	0	0 0	- 0	0 :	0
ì	ŏ.Misce.Facilities	0	0	0	0	0
1 1	Sub-total (FC) (EC) 7.Miscs.Expense 8.Engineering & SV	0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0
1	9.Contingencies 10.Import Duties 11.Value Added Tex	0 0 0	0 0	0 0 0	0 0 0	0
	Sub-tote1	0	0	O	0	0
	TOTAL (1000 Baht) FC LC	0 0 0	0 0 0	0 0 0	0 0 0	0
	TOTAL (1000 US \$) PC LC	0 0 0	0 0	0 0 0	0 0 0	0

	<c> \$.\$.</c>	200						housand.	*****
	-Bus System :	One end	•	half			c	0 benseam	
	-Voltage :	230 k	,~					500 kV	
	-Number of Bay :	730 (0	
	-Number of Line:	,	Ś					ő	
	-Number of Bank;	. (ŏ	
				Al-pipa	***			1-pipe	
	-Type :	COMV.		INV.	GIG			ONA.	010
1	1.Lend Acquisiti			0)	0	H
1	2. Land Improvemen	nt (•	0		•	3	0	
	3. Foundation Wor								
ĭ	-Bus		1	0		t	•	0	
ī	-Transformer	i	•	ō		Ċ	•	ō	
ī	-Trench		Ś	ě		· č		ŏ	
	4.Control Buildi			ŏ		à		ŏ	
î	4.contto: Dariai					č			
	5.Equipment	· c		0		è		0	
î	-GIB		•	0		ì			
i	-Steel Structu	re		. 0		ď			
i	-Misce, hardwa		í	ŏ		Č		ŏ	
í	-Transformer		6	ŏ		č		ŏ	
i	-Circuit Break			ŏ		٠,	,	ŏ	
i	-Disconnect.Sw		,	ő		-		ŏ	
1	-instrument Tr			ă		_		. 0	
i	-Control & BBR		,	0		- 0		ŏ	
í	-Others	*	•	٠			•	v	
	6.Misca.Faciliti	68 (0				0	
•	*****							~~~~~~	
	Sub-total	. ()	0				Ð	
	(YC))	0		0		0	
	(1.C))	0				0	
1	7.Hisos.Expense		}	0				ø	
ì	8.Engineering &	8Ý ()	0)	Q	
1	9.Contingencies	()	0				0	
	10. import Duties)	. 0)	0	
1	11.Value Added T	41 ()	. 0) 	0	
	Sub-total	()	0		C)	0	
	TOTAL (1000 Baht)		. 0		6		0	
	FC		٥	. 0		- 0		0	
	LC))	0		0)	. 0	
	TOTAL (1000 US 6)	0		9		0	
	rc)	ő		9		0	
	rc .		,	0			,	0	

Thousand	Baht		<c> 9.8.</c>	2011			Thousand	Boht
0 One and a 500 kV		0		230 kV	a haif		One and a	half -
o o			-Number of Line:				3	
At-pipe CONV.	G18		-Type	Al-pipa CONV.	Al-pipe INV.		CONV.	
0			1.Land Acquisition	2795	3497	569		0
0		1	2.Laud Improvement 3.Foundation Work		2658	197	2410	236
0		0 1	-Bua	17544	17544	5263	9780	2934
o		0 1	-Transformer	0				
Ō			-Treach	1306				
ō		0 1	4. Control Building	19200				
		0 1		**	12.40	133.00		4875
. 0		D I	5.Equipment	262621	290375			
- '		0 1		-	2,00,0	276325		362070
. 0			-Steal Structure					
ò			-Miscs. hardware		45843			
ō			-Transformer	0				
Ö	-		-Circuit Breaker	78330	78330		105390	-
Ŏ			-Disconnect.Swit		33327		50670	
Ó	-		"Instrument Tran	61446	61446		63990	
ŏ		0 1	-Control & SERV.	50985	50985			
0			6.Hisca.Facilities	22720	22720	22720	0	0
0		0	Sub-totel	328253	357300	382432	571056	954314
0		p	(FC)	236080				886715
0		D	(rc)	92173	108441	67886	105919	87599
O		0 1	7. Hisca. Expense	16170	17557	19083		47704
Q		0 1	B.Engineering & BV 9.Contingencies	22978	25011	26770		
0		0 1	9.Contingencies	32825	35730	38243	87106	
Đ		0 1	10.Import Duties	34564	42616	30807	83634	
0		0 1	11 Value Added Tax	25057	27563	26873	66659	
0		0	8ub-total	131594	148477	143776	341805	358352
ø		5	TOTAL (1000 Baht)					
0		<u> </u>	PC	286251				955751
. 0		D - <i>←</i>	t.c	193596	225340	175282	368431	356915
0		0	TOTAL (1000 US 8)	18394	20231	21048	48514	52507
0		0	PC		11217		33777	
0		9	LC	7744	9014	7011	14737	14277

BREAK DOWN

OF

TRANSMISSION LINE COST

*******	*****	****				
Year	1998					
Section .	NONG CHO	K - ON NU	CB			
New line ?	Ó				0	
Existing ?	ī	0	n	0	ŏ	- 1
Soil -fair	ā	•	•	•	ŏ	•
~poor	ĩ				ĭ	
Leogth (km)	16.Â				ô	
			#		v	
-(kV)	230	230	230	230	K00 (330	
-(cct)	230	230	230	230	500/230	500
-Town	DC/ST	DC/ST		4 mah (0.00	-	De 400
-(HCH)	<i>UC/81</i>	DC/01	4cct/ST	4cct/87	4cot/ST	DC/S1
-(Number)	- 2	4	2	4	4	4
Route Survey	302.4	302.4	203.4	202 1		
Right of Way	301.4	302.4			0	9
	1680		1540	v	0	9
Preliminary Work Tower Footing		1580	1680		0	9
Equipment		01104770	124143.6	173801.0	0	(
-Tower Body	25704	35985.6	80740.8	113037.1	0	
-Insulator Strings	8232	16464	16464	32928	ŏ	č
-Conductor	8920.8	17841.6	17841.6	35683.2	ŏ	č
-	2436	2436	17724	17724	ŏ	č
- OGM	504	504	504	504	ŏ	õ
-Accessories .	2553.6	5107.2		10214.4	ŏ	č
-Ground Wire	462	462	462	462	ň	õ
-Others					•	•
SUB-TOTAL	94441	141888	264970	386336	·····	
•					-	_
Miscellaneous	4706.93	7079.28	13233.38	19301.68	0	0
Reginering £ SV.	6610.87			27043.52	ŏ	ŏ
Contingency	9444.1	14188.8	26497	38633.6	ŏ	ŏ
Import Duty	4265	8202	8040	15752	ŏ	ă
Velue Added Tax	6888.252	10485.13	19089.53	28124.99	ŏ	ŏ
SUR-TOTAL	31915	49887	85408	128856	0	0
TOTAL	126356	191775	350378	515192	0	0
Resoval	20764.8	Ó	0	0	ŏ	ŏ
DIRECT COST	4.61	6.51	11.43	16.28		
INDIRECT COST	1.28	2	3.42	5.15	ŏ	0
		- 4	3,42	3.13	U	0
FORBIGN CURR.	0.49	0.94	0.92	1.8	0	0
LOCAL CURR.	5.4	7.57	13.93	19.63	ŏ	ŏ
POTAL (mill.USS)						

· ·							
	CONSTRUCTION COST-	DVERBEAD	LINE	886 :	÷ 25	Baht	
•	***********		****				
	Year	2009					
		NONG CHO	(- <c></c>				
	New line 7	0				0	
	Bristing ?	1	0	0	0	0	0
	Soil -fair	0				0	
	-poor	1				1	
	Length (km)	19				0	
	-(kV)	230	230	230	230	500/230	500
	-(cct)	2	2	4	4	4	2
	-Tower	DC/ST	DC/ST	4cct/ST	4cct/ST	4cct/ST	DC/ST
•	~(MCM)	,	,				
	-(Number)	2	4	2	. 4	4	4
	(-		-	•		
the state of the s	Route Survey	342	342	342	342	0	6
	Right of Way		0	0.0	0	ŏ	ō
	Preliminary Work	1900	190Ď	1900	1900	ŏ	Ď
	Tower Footing	49362		140400.5		ŏ	Ŏ
	Rquipment	.,,,,,,,	0,,,,,,,			•	•
	-Tower Body	29070	40698	91314	127839.6	0	٥
	-Insulator Strings		18620	18620	37240	Ď	ŏ
	-Conductor	10089	20178	20178	40356	ŏ	ō
		2755	2755	20045	20045	Ď	ŏ
the state of the s	-OGW	570	570	570	570	ŏ	ŏ
	-Accessories	2888	5776	5776	11552	ŏ	ŏ
the state of the s	-Ground Wire	522.5	522.5	522.5	522.5	ŏ	ŏ
	-Others	322.3	324.3	344.3	322.3	v	•
•	-Delivates						
•	• SUB-TOTAL	106809	160468	299668	436928	0	0
	■ SUB-TOTAL	100003	100400	233000	430320	v	v
•	Miscellaneous	5323.35	8006.3	14966.3	21829.3	0	0
				20976.76		ŏ	ŏ
	Enginering & SV.	10680.9	16046.8		43692.8	ŏ	ŏ
	Contingency		9276	9093	17814	ŏ	ŏ
	Import Duty	4823				0	ŏ
	Value Added Tax	7790.3	11858.14	X1583.33	31808	U	v
	DOWN TOTAL	32867			4.545		
	* SUB-TOTAL	36094	56420	96592	145729	U	0
i e		*****	444500	557575	****		
• •	* TOTAL	142903		396260	582657	0	0
	Removel	23484	0	0	0	0	0
							
	* DIRECT COST	5.21	7.36		18,42		0
	 INDIRECT COST 	1,44	2.26	3.86	5.83	0	0
•	2						
	 FOREIGN CURR. 	0.55			2.04	. 0	Ō
•	♣ LOCAL CURR.	5.1	8.56	15.75	22.21	0	0
	-						
	+ TOTAL (mill.U8\$)	6.65	9.62	16.79	24.25	0	0

CONSTRUCTION COST-C			US\$:		Béht.	
fear	2010					
Section N	ONG CHOI	< - <c></c>				
tew line ?	0				0	
Sxisting ?	1	0	0	0	0	C
Soil -Fair	0				0	
-poor	1				1	
Length (km)	19				19	,
-(kV)	230	230	230	230	500/230	500
-(cct)	2	2	. 4	4	4	
Tower	DC/ST	DC/ST	4cct/ST	4cct/ST	4cct/ST	DC/S1
-(KCH)	_ >,	,				
-(Number)	2	4	2	4	4	4
Route Survey	342	342	342	342	342	342
Right of Way	0	0	0	0	0	
Preliminary Work	1900	1900	1900	1900	2945	294
Fower Footing Equipment	49362	69106.8	140400.5	196560.7		84586
-Tower Body	29070	40698	91314		279910.2	89110
Insulator Strings	9310	18620	18620	37240	37240	2234
-Conductor	10089	20178	20178	40356	40356	20178
_	2755	2755	20045	20045	20045	8930
-OGW	570	570	570	570	570	570
-Accessories	2888	5776	5776	11552	11552	8664
-Ground Wire -Others	522.5	522.5	522.5	522.5	741	741
SUB-TOTAL	106809	160468	299668	436928	659407	238412
Miscellaneous	5323.35	8006.3	14966.3		32953.25	11903.5
Enginering & SV.			20976.76			
Contingency	10680.9	16046.8	29966.8	43692.8	65940.7	23841
Import Duty	4823	9276	9093	17814	18073	11849
Value Added Tax	7790.3	11858.14	21589.33		47399.66	17494.3
SUB-TOTAL	36094	56420	96592	145729	210525	8177
TOTAL	142903	216888	396260	582657	869932	320189
Removal	23484	Ö	0	0	0	(
DIRECT COST	5.21	7.36	12.93	18.42	27.32	10.4
INDIRECT COST	1.44	2.26	3.86	5.83	8.42	3.2
FORBIGN CURR.	0.55	1.06	1.04	2.04	2.07	
LOCAL CURR.	6.1	8.56	15.75	22.21	33.67	12.4
	6.65	9.62	16.79	24.25	35.74	13.7

CONSTRUCTION COST-O		***	US\$ =		Baht	
Year .	1995					
	ONG CHOK -	- WANG R	OI .			
New line ?	0				1	_
Existing ?	0	0	0	٥	0	0
Soil -fair	0				o	
-poor	1				1 64	
Leagth (km)	U				0.9	
-(kV)	230	230	230	230	500/230	500
-(cct)	2	2	4	4	4	2
-Tower	DC/ST	DC/ST	4cct/ST	4cct/ST	4cct/ST	DC/ST
-(KCM)			2			4
(Number)	. 2	4	2	4	4	4
Route Survey	0	0	0	6	1152	1152
Right of Way	0	0 -	o o	0	344000	344000
Preliminary Work	Ō	0	o o	ō	9920	9920
Tower Pooting	0	Ó	0	0	895009.1	284928
Boulpment			•	•		2001/0
-Towar Body	0	. 0	0	0	942855.5 125440	300160 75264
-Insulator Strings -Conductor	Ö	ŏ	ŏ	ŏ	135936	67968
-Conductor	ŏ	ŏ	ŏ	ŏ	67520	30080
~OGW	. 6	ŏ	ŏ	ŏ	1920	1920
-Accessories	. 0	ŏ	ŏ	ŏ	38912	29184
-Ground Wire	ŏ	ŏ	ŏ	ŏ	2496	2496
-Others		•	-	•		
SUB-TOTAL	0	0	0	0	2565161	1147072
			-	-		
Miscellaneous	0	. 0	0		111000.4	40096
Enginering & SV.	ō	0	ō		179561.2	
Contingency	0	0	0	Ō	256516.1	
Import Duty	0	. 0	0	ŏ	60878	39911
Value Added Tax	0	. 0	0	0	159662.0	35926.17
SUB-TOTAL	0	0	0	O	767518	333937
TOTAL	0	0	0	0	3332779	1481009
Removal	0	0	0	0	0	0
DIRECT COST	0	0	0	0	102,61	45.88
INDIRECT COST	ŏ	ŏ	õ	õ	30.7	13.36
		-		_		
FOREIGN CURR.	, Q	0	0	0	6.96	4.56
LOCAL CURR.	0	0	0	0	126.35	54.68
TOTAL (mill.US\$)	0	0	0	0	133,31	59.24

		CONSTRUCTION COST-	-OVERHEAD	LIKE	US\$ =	2 5	Baht	
		***********		***				
		Year	2000					
		Section	SAI NOI -	BANGKOK	NOI			
		New line 7	Q				0	
		Existing ?	1	0	. 0	0	Ó	0
		Soil -fair	ō	•	•	•	á	•
		~poor	ĭ				ī	
		Length (km)	29.6				29.6	
								*
		-(kV)	230	230	230	230	500/230	500
		-(cct)	2				4	***
		-Tower	DC/ST	DC/ST	4cct/8T	4cct/ST	4cct/ST	DC/81
		-(MCH)	, .,	,	,000,00	,	,	~ -, 0.
		-(Number)	. 2	4	. 2	4	4	4
		Route Survey	532.8			532.8		
		Right of Way	0					
		Preliminary Work	2960	2960	2960	2960		4588
		Tower Footing	76900.8	107661.1	218729.2	306220.8	413941.7	131779.2
		Equipment	12.					
		-Tower Body	45288		142257.6			136824
		-Insulator String		29008	2900B	58016		34809.6
		-Conductor	15717.6			62870.4	62870.4	31435.2
		-	4292		31228	31228		13912
		-OGM	886	888	888	888		886
		~Accessories	4499.2	8998.4	8998.4	17996.8	17996.8	13497.6
		-Ground Wire -Others	814	814	814	B14	1154.4	1154.4
		SUB-TOTAL	166396	249993	466851	680688	1027287	371421
				-,,,,,		*******	102.20.	0
		Miscellaneous	8293,16	12473.01	23315.91	34007.76	51337.71	18544,41
		Enginering & SV.			32679.57			
		Contingency	16639.6		46685.1		102728.7	37142.1
		Import Duty	7514		14166	27753	28156	
*		Value Added Tax			33633.89			
	*	SUB-TOTAL	56231	87896	150480	227031	327976	127399
		TOTAL	222627	337889	617331	907719	1355263	498B20
	-	Removal	36585.6	33,663	01/331	307713	13532D3 0	770000
		1,020.01		•	v	·	•	
		DIRECT COST	8.12	11.46	20.13	28.69	42.55	16,32
		INDIRECT COST	2.25					5.1
•	٠,	PODULCH CODO	0.05	,	1 (2	2	2 44	
		FOREIGN CURR.	0.86		1.62		3.22	2.11
	*	LOCAL CURR.	9.51	13.33	24.53	34.6	52.45	19.31
		TOTAL (#(11,08\$)	10.37	14.98	26.15	37.77	55.67	21.42

CONSTRUCTION COST		LINB	US\$	= 25	Baht	
Year	2004	***				
Section	SAI NOI .	- RANGSIT				
New line ?	0	_	_	_	0	_
Existing ?	1	0	ō.	0	ō	0
Soil -fair	0				Ò	
-poor	1				1	
Length (km)	24.5				24.5	
						*
~(kV)	230	230	230	230	500/230	500
~(cct)	2	2	4	. 4	. 4	2
-Tower	DC/ST	DC/ST	4cct/6T	4cct/8T	4cct/6T	DC/ST
-(HCM)					•	
-(Number)	2	4	2	4	4	4
Route Survey	441	441	441	441	441	441
Right of Way	0	0	0	0	0	. 0
Preliminary Work	2450	2450	2450	2450	3797.5	3797.5
Tower Footing	63651	89111.4	181042.7	253459.8	342620.6	109074
Equipment.						
-Tower Body	37485	52479	117747	164845.8	360936.8	114905
-Insulator Stringe		24010	24010	48020	48020	28812
-Conductor	13009.5	26019	26019	52038	52038	26019
	3552.5	3552.5	25847.5	25847.5	25847.5	11515
-OGW	735	735	735	735	735	735
-Accessories	3724	7448	7448	14896	14896	11172
-Ground Wire	673.75	673.75	673.75	673.75	955.6	955.5
-Others	014170		0.4,10	014115	,,,,,,	20010
SUB-TOTAL	137727	206920	386414	563407	850288	307426
Miscellaneous	6964.3	10323.95	19298.65	26148.3	42492.35	15349.25
Enginering & SV.	9640.89	14484.4	27048.98			21519.82
Contingency	13772.7	20692	38641.4		85028.8	30742.6
Import Duty	6220	11961	11725	22971	23305	15279
Value Added Tax	10045.42	15290.8	27838.86	41015.59	61120.64	22558.48
SUB-TOTAL	46543	72752	124553	187914	271467	105449
TOTAL	184270	279672	510967	751321	1121755	412875
Removal	30282	0	0	0	0	Ō
2						
DIRECT COST	6.72	9.49	16.67	23.75	35,22	13.51
INDIRECT COST	1.86	2.91	4.98	7.52	10.86	4.22
FOREIGN CURR.	0.71	1.37	1.34	2.63	2.56	1.75
LOCAL CURR.	7.67	11.03	20.31	28.64	43.42	15.98
TOTAL (mill.USS)	8.58	12.4	21.65	31.27	46.08	17.73

1								
		CONSTRUCTION COST-	OVERHEAD	LINE	US\$ =	25	Baht	
		****	******	****	•			
		Year Section	1995	ritua vot				
		New line ?	O LUN LAG	WANG NOT			_	
		Existing ?	ŏ	Ċ	0	0	1 0	
		Soil -fair	ŏ	•	•	. •	Ó	
		-poor	1				ĩ	
		Length (km)	0				56	
		•						*
-		-(kV)	230	230	230	230	500/230	500
		·-(cct)	2	2	4	4	300/230	
•		-Tower	DC/ST	DC/6T	4cct/ST	4cct/ST	4cct/8T	
		-(MCM) -(Number)	-					•
		-(unumar)	2	4	2	4	4	4
		Route Survey	0	0	ō	0	1008	1008
		Right of Way	Ó	Ö	ŏ	ŏ	301000	301000
		Preliminary Work	ō	. 0	. 0	Ó	8680	8680
•		Tower Pooting Equipment	. 0	. 0	0	0	783132.9	249312
		-Tower Body	0	. 0	0		024000 E	053540
		-Insulator Strings	ŏ	. ŏ	ŏ	ŏ	824998.5 109760	252640 65856
		-Conductor	Ò	ŏ	ŏ	ŏ	118944	59472
			. 0	. 0	Ü	Ō	59080	26320
		-OGV	0	0	0	0	1680	1680
		-Accessories -Ground Wire	. 0	0	0	0	34048	25536
		-Others	·	U	U	0	2184	2184
		SUB-TOTAL	0	0	0	0	2244516	1003688
•		Miscellaneous				_		
		Enginering & SV.	0	0	0	0	97125.4	35084
		Contingency	ŏ	ő	ŏ		157116.1	100368.8
		Import Duty	ŏ	ŏ	ŏ	ŏ	53268	34922
		Value Added Tax	0	0	Ŏ		139704.3	
		SUB-TOTAL						
5	•	SOB-TOTAL	. 0	0	0	0	671665	292195
* * *		TOTAL	0	0	0	0	2916181	1295883
	1.	Removal	ŏ	ŏ	ŏ	ŏ	2910101	1295683
				•	•	•	v	v
		DIRECT COST						
4	:	INDIRECT COST	0	0	0	0	89.78	40.15
the second of the second	_		ď	Ü	o	. 0	26.87	11.69
		FOREIGN CURR.	. 0	0	0	0	6.09	3.99
	*	LOCAL CURR.	Ó	. 0	ŏ	ŏ	110.56	47.85
		TOTAL (-11 1100)						
	•	TOTAL (mill.uss)	0	0	0	ĬD.	116.65	51.84
the second secon			T11-1-1-1					

	•						
	CONSTRUCTION COST-	OVERSEE AD	LINE	UB\$. 25	Beht	
	**************************************	2000	****				
	Section		ICKOK - (1	ALINOCHAI	(TH109)		
	New line ? Existing ?	0	0	0	0	0	0
	Boil -fair	ō	٧		U	ŏ	v
	-poor	1				1	
	Leagth (km)	9.2				9,2	
	-(kV)	230	230	230	230	500/230	500
	-(cct)	2	222	4	4	4	300
	~Torrar	DC/ST	DC/8T	1cct/87	4cct/ST	4cct/ST	DC/9T
	-(NCM) -(Number)	2	4	2	4	4	4
		165.6	155.6	165.6	165,6	165.6	165.6
	Route Survey Right of Way	103.0	193.0	103.0	103,0	205.0	103.0
	Proliminary Work	920	920	920	920	1425	1426
	Tower Footing Equipment	23901.6	33462.24	67983.4	95176.76	128657.5	40958.4
	-Tower Body	14076	19706.4	44215.2	61901.28		43148
	-Insulator Strings	4895.2	9016 9770.4	9016 9770.4	18032 19540.8	18032 19540.8	10819.2 9770.4
	_	1334	1334	9705	9706	9706	4324
	-OGM	276	276	276	276	276	276
	-Accessories -Ground Wire	1398.4 253	2796.8 253	2796.8 253	5593.6 253	5593.6 358.6	4195.2 350.8
	-Others					2000	20015
	SUB-TOTAL	51718	72700	145102	211565	319292	115442
	Miscellaneous Enginering & SV.	2577.62 3620.26	3876.72 5439	7246.82	10569.97	15956.32 22350.44	5763.82 8080.94
	Contingency	5171.8	7770	14510.2	21156.5	31929.2	11544.2
	Import Duty	2335	4491 5741.776	4403	8626 15401.77	8751	5737
	Value Added Tax					22951.41	8470.938
٠	SUB-TOTAL	17478	27318	46771	70564	101938	39597
*	TOTAL	69196	105018	191873	262129	421230	155039
	Resoval	11371.2	0	0	0	0	0
٠	DIRECT COST	2.52	3.56	6.25	8.91	13.22	5.07
•	INDIRECT COST	0.7	1.09	1.87	2.82	4.08	1.58
٠	FOREIGN CURR.	0.27	0.51	0.5	0.99	1	0.65
•	LOCAL CURR.	2.95	4.14	7.62	10.74	16.3	5.99
*	TOTAL (mill.UE\$)	3.22	4.65	8.12	11.73	17.3	6.63
	•						
	CONSTRUCTION COST-	OVERHEAD	LINE	U8\$ -	25	Baht	

	Tear Section	2000 (TALINGCI	AN POINT	- BANGKO	ж кот		
	New line ?	. 0				. 0	_
	Existing ? Soil -fair	1	0	o	0	0	0
	-poor	ī				ĭ	
	Length (km)	9.2				9.2	
	·						
	-(kV)	230	230	230	230	500/230	500
	-{cet} -Tower	DC/ST	DC/ST	4cct/ST	4cct/ST	4cct/ST	DC/81
	-(HCH)		•	-		•	
	-(Number)	2	4	2	4	4	4
	Route Survey	165.6	165.6	165.6	165.6	165.6	165.6
	Right of Way Preliminary Work	920	920	920	920	0 1426	0 1426
	TOWER FOOTING		33462.24		95176.76		40958.4
	Regul pment	14076	18706 4				42148
	-Tower Body -Insulator Strings	14076 4508	19706.4 9016	9016	61901.28 18032	18032	4314B 10819,2
	-Conductor	4885.2	9770.4	9770.4	19540.B	19540.8	9770.4
	-ogw	1334 276	1334 276	9706 276	9706 276	9706 276	4324 276
	-Accessories	1398.4	2796.8	2796.8	5593.6	5593.6	4195.2
	-Ground Wire -Others	253	253	253	253	358.8	358.8
		·					
	GUR-TOTAL.	51719	77700	145102	213485	219292	115442

51719 77700 145102 211565 319292 115442

. SUB-TOTAL

						•	
	CONSTRUCTION COST-	2002	LINK ***** NGKOK - <	######################################	= 25	Baht	
	New line ?	0				0	
	Existing ? Soil -fair	ő	0	0	0	0	0
	-poor	1				1	
	Length (km)	4.4	4			4.4	
	-(XV)	230	230	230	230	500/230	500
	-(cet) -Tower	DC/ST	DC/ST	4 4cct/ST	4 4cct/87	4cct/ST	DC/ST
	~(MCH)						•
	-(Number)	2	4	2	•		4
	Route Survey Right of Way	79.2 0	79.2	79.2	79.2	79.2	79.2
	Preliminary Work	440	440	440	440	682	682
	Tower Footing Equipment	11431.2	16003.68	32513.8	45519.32	61531.87	19580.8
	-Tower Body	6732	9424.8			64821.31	20636
	-Insulator Strings -Conductor	2156 2336.4	4312 4672.8	4312 4672.B	8624 9345.6	8624 9345.6	5174.4 4672.8
	-	638	638	4642	4642	4642	2068
	-OGW -Accessories	132 668.8	132 1337.6	132 1337.6	132 2675.2	132 2675.2	132 2006.4
	-Ground Wire	121	121	121	121	171.6	171.6
	-Others						
•	SUB-TOTAL	24735	37161	69397	101183	152705	55211
	Miscellaneous	1232.79	1854.09	3465.89	5055.19	7631.29	2756.59
	Enginering & SV. Contingency	1731.45 2473.5	2601.27 3716.1	4857.79 6939.7	7082.81 10118.3	10689.35 15270.5	2064.77
	Import Duty	1117	2148	2106	4125	4185	5521.1 2744
	Value Added Tax		2746.086		7366.016	10976.75	
*	SUS-TOTAL	8359	13066	22369	33747	48753	18938
*	TOTAL	33094	50227	91766	134930	201458	74149
	Removal	5438.4	. 0	0	0	0	0
	DIRECT COST	1.21	1,71	3	4.27	6.33	2,43
	INDIRECT COST	0.33	0.52	0.89	1.35	1.95	0.78
	FOREIGN CURR.	0.13	0.25	0.24	0.47	0.48	0.31
	LOCAL CURR.	1.41	1.98	3.65	5,15	7.8	2.88
. •	TOTAL (mill.US\$)	1.54	2.23	3.69	5.62	8.26	3.19

Year	2003					
Section 1	BANGROK N	OI - junc	tion pt.	to SANPHR	A10 1	
New line ?	0	•			ð	
Bristing ?	ī	0	0	0	ŏ	
Soil -fair	Ò	•	-	-	ō	
-poor	ï				ĭ	
Length (km)	0.3				ō	
penden (vm)	7.3				·	
-(kV)	230	230	230	230	500/230	
~(cct)	2	2	. 4	4	4	
+Tower	DC/8T	DC/8T	4cct/8T	4cct/8T	4cct/ST	DC.
~(HCM)						
- (Number)	2	4	2	4	4	
Route Survey	5.4	5.4	5,4	5.4	0	
Right of Way	. 0	.0	. 0	0	ō	
Preliminary Work	30	30	30	30	0	
Tower Footing Equipment	779.4	1091.16	2215.85	3103.59	0	
-Tower Body	459	642.6	1441.8	2018.52	0	
~Insulator Strings	147	294	294	588	0	
-Conductor	159.3	318.6	318.6	637.2	0	
	43.5	43.5	316.5	316.5	. 0	
-OGW	9	9	9	9	0	
-Accessories	45.5	91.2	91.2	182.4	Ó	
-Ground Wire	8.25	8,25	8.25	8.25	ō	
-Others			••-•		-	
SUB-TOTAL	1686	2534	4732	6899	0	
Miscellaneous	84.03	126.43	236.33	344.68	0	
Enginering & BV.	118.02	177.38	331.24	482.93	ŏ	
Contingency	168.6	253.4	473.2	689.9	ŏ	
Import Duty	76	146	144	281	ŏ	
Value Added Tox	122.962	187.222	340,942	502.222	ŏ	
SUB-TOTAL	570	890	1526	2301	0	
TOTAL	2256	3424	6258	9200	0	
Resoval	370.8	0	0	0	0	
DIRECT COST	0.08	0.11	0.2	0.29		
INDIRECT COST	0.02	0.04	0.06	0.09	ŏ	
FOREIGN CURR.	0.01	0.02	0.02	0.03	0	
LOCAL CURR.	0.09	0.13	0.24	0.35	0	
TOTAL (mill.US\$)	0.1	0.15	0.26	0.38	Q	

CONSTRUCTION COS	T-OVERHEAD	LINB	08\$	a 25	Baht	
******	*****	****				
Year	2003					
Section .	junction	pt SA	NPHRAN 1			
New line ?	0				. 0	
Existing ?	1	0	0	0	0	C
Soil -fair	0				0	
-poor	1				1	
Length (km)	11.7				0	
				*		
-(kV)	230	230	230	230	500/230	500
-(cct)	2	. 3	- 4	4	4	2
-Tomer	DC/ST	DC/BT	4cct/8T	4cct/8T	4cct/6T	DC/ST
~(HCM)						
-(Number)	2	4	2	. 4	4	4
Route Survey	210.6	210.5	210.6		0	
Right of Way	0	0	0	0	Ō	q
Preliminary Work		1170	1170	1170	0	9
Tower Footing Equipment	30396.6	42555.24	86457.15	121040.0	0	C
-Tower Body	17901	25051.4	56230.2	78722.28	0	0
-Insulator Strin	gs 5733	11466	11466	22932	Ď	Č
-Conductor	6212.7	12425.4	12425.4	24850.8	ŏ	č
	1695.5	1696.5	12343.5	12343.5	ŏ	č
-00M	351	351	351	351	ŏ	č
-Accessories	1778.4	3556.8		7113.6	ŏ	č
-Ground Wire	321.75	321.75	321.75	a21.75	ŏ	ť
-Others	0-1.75	3	322113	022174	•	•
SUB-TOTAL	65772	98015	184532	269056	0	0
Miscallaneous	3278.07	4930.22	9216.07	13442.27	0	C
Enginering £ SV.		6917.05	12917.24		0	0
Contingaucy	6577.2	9881.5		26905.6	0	
Import Duty	2970	5712	5599	10970	0	C
Value Added Tax	4797.198	7302.148	13294.42	19587.07	0	C
Sub-total	22227	34743	59480	89739	0	
TOTAL	87999	133558	244012	358795	0	
Removal	14461.2	0	0	0	0	C
DIRRCT COST	3.21	4.53	7.96	11.34		
INDIRECT COST	0.89	1.39	2.36	3.59	č	č
			2.30		•	•
FOREIGN CURR.	0.34	0.65	0.64	1.25	Đ	0
LOCAL CURR.	3.76	5.27	9.7	13.68	0	ď
TOTAL (mill.US9)	4.1	5.92	10.34	14.93	0	

				CONSTRUCTION COST-	OVERHEAD	LINB	58\$ ·	25	Baht	
				*************		1990#				
				Year	2004					
				Section		101 - 808	ги тноивил	41	_	
				New line ?	Đ				0	
				Existing ?	1	0	0	0	0	0
				Soil -fair	0				0	
				~poor	1				1	
				Length (km)	6.1				Ö	
				and the care		*			-	
				-(kV)	230	230	230	230	500/230	500
					230	2.30	230	4	JUV/ 230	303
				-(cct)			4 man (CB)		duck (CH	
				-Town	DC/ST	DC/ST	4cct/ST	4cot/6T	4cct/ST	DC/ST
				-(NCH)				_		
				~(Nomber)	2	4	2	4	4	4
*				Route Survey	145.8	245.0	145.8	145.8	0	0
				Right of Way	0	0	. 0	. 0	0	0
				Preliminary Work	B10	810	810	810	Ō	0
				Towar Footing Equipment	21043.8	29461.32	59854.95	83796.93	0	0
				-Tower Body	12393	17350.2	38928 6	54500.04	0	0
				-Insulator Strings		7938	7938	15976	ŏ	ŏ
					4301.1	8602.2	8602.2	17204.4	. 6	ŏ
				-Conductor				8345.5	ŏ	ŏ
					1174.5	1174.5	8545.5			
				-OGV	243	243	243	243	Ō	0
		*		-Accessories	1231.2	2462.4	2462.4	4924.B	o o	o
			•	-Ground Wire -Others	222.75	222.75	222.75	222.75	0	0
										
				SUB-TOTAL	45534	58410	127753	186269	0	0
				Miscellaneous	2269.41	3413.21	6380.36	9305.16	0	0
				Enginering & SV.	3187.38	4788.7		13038.83	ŏ	ŏ
				Contingency	4553.4	6841	12775.3	18626.9	ŏ	ŏ
					2056	3954	3876	7594	ŏ	ŏ
				Import Duty						
				Value Added Tex	3321.094	5055.274	9203.824	13560.20	0	0
			•	SUB-TOTAL	15387	24052	41178	62125	0	0
				TOTAL	50921	92462	168931	248395		
									0	ŏ
				Resoval	10011.6	0	0	0	U	U
				DIRECT COST	2,22	3.14	5,51	7.85	0	ō
				INDIRECT COST	0.62		1.65	2.49	ŏ	ŏ
			· .		V,02	0.30	00	~, 17	•	
				FOREIGN CURR.	0.24	0.45	0.44	0.87	0	0
		-							ŏ	ő
			•	LOCAL CURR.	2.6	3.65	6.72	9.47	v	V
				WOMET (-11) HOOS	2.84	4.1	7.16	10.34	ó	0
	4.4		,	TOTAL (mill.US\$)	4.04	7.1	7.10	10.54	v	U

25 Baht

Year Baction New or Expansion

Number of Circuit (cct)	2			
Cable Type	1200mm2, XI	LPR	1200mm2,0	F
Section Length (km)	11			
Conduit or Duct	COMBUIT/	DUCT	CONDUIT/	DUCT
	SHEATH		SHEATH	
Number of Joint Box (pce)	186	168		168
Number of Man Hole (pcs)	31	28	31	28
Line Route Survey	18	18	18	18
Preliminary Work	100	100	100	100
Cable	462	462	330	330
Joint Box	260.4	235.2	93	84
Cable Head	2.4	2.4	2.4	2.4
Oil Feeding System	0	0	80	80
Conduit Pipe	79.2	46.2	79.2	46.2
Cable Pulling	158.4	116.8	150.4	118.8
Conduit with Concrete Bheath		374	660	374
Treatment of Load Surface	264	264	264	264
Man Hole	37.2	33.6	37.2	33.6
Cable Head	2.9	2.9	2.9	2.9
SUB-POTAL	2044.5	1657.1	1825.1	1453.9
Miscellaneous Expanse	101.3	82	90.4	71.8
Engineering & Supervision	143.1	116	127.8	101.8
Contingency	204.5	165.7		145.4
Import Duty	281.4	261	204.6	189.9
Value Added Tax	161_6	133	140.8	113.8
SUB-TOTAL	891.9	757.7	746.1	622.7
TOTAL (m(11.Beht)	2936.4	2414.8	2571.2	2075.6
DIRECT COST (mill.USS)	81.78	66.28		58.16
INDIRECT COST (mill.US\$)	35.68	30.31	29.84	24.91
POREIGN CURR. (mill.US\$)	32.16	29.83		21.7
LOCAL CURR. (mill.US\$)	85.3	66.76	79.46	61.37
TOTAL (mill.US\$)	117.46	96.59	102.84	83.07

Year Section New or Expansion

• TOTAL

(mill.US\$)

Number of Circuit (cot) 1 1200mm2, XLPR 11 Cable Type Section Length 1200mm2,0P (km) DUCT CONDUIT/ SHEATH 84 93 26 31 Conduit or Duct CONDUIT/ DUCT 8REATH 93 31 Number of Joint Box (pcs) Number of Man Hole (pcs) 84 28 Line Route Survey Preliminary Work 0 0

0 Cable Joint Box Cable Head Oil Feeding System Conduit Pipo 231 117.6 1.2 0 231 130.2 1.2 0 185 46.5 1.2 80 0 165 42 1,2 80 0 Cable fulling Conduit with Concrete Sheath or Duct Treatment of Load Surface Man Hole Cable Read 59.4 0 0 0 1.5 59.4 0 0 0 1.5 79.2 0 0 0 1.5 79.2 0 0 0 1.5 4 SUB-TOTAL 410.7 373.4 349.1 443,1 Miscellensous Expense Engineering & Supervision Contingancy Import Duty Value Added Tax 20.5 28.7 41.1 122.4 37.3 18.7 26.1 37.3 102.4 33.3 17.5 24.4 34.9 100.9 31.5 22.2 31 44.3 126.8 39.9 * SUB-TOTAL 264.2 250 217.8 209.2 591.2 707.3 560.7 558.3 (mill, Baht) * DIRECT COST (mill.US\$)
* INDIRECT COST (mill.US\$) 17.72 10.57 16.43 10 14.94 8.71 13.96 8.37 * PORBIGN CURR. (mill.096)
* LOCAL CURR. (mill.098) 14.5 13.79 13.99 12.44 11.71 11.94 11.53 10.8

28.29

23.65

22.33

CONSTRUCTIO		OVERHEAD		υ 2\$ ≈	25	Baht	
	******	1997	***				
Year		1997	ANTERNAM II			ER PORT AR	m > 1
Section			CHABNG W	OJAMAHTEA	ATRIDE-VI		EM)
	? .	. 0	_		_	0	
Bristing 1		1	0	0	0	0	(
Soil .	-fair	0				o o	
-	poor	1				1	
Length (km)) T	5				5	
-(kŸ)		230	230	230	230	500/230	50
~(cct)		2	- 2	4	4	4	
-Tower		DC/ST	DC/8T	4cct/ST	4cct/8T	4cct/ST	DC/8
- (MCM)		,					
~{Number}		. 2	4	. 2	4	4	
Route Surve		90	90	90	90	90	9
Right of W	ıγ		500	500	500	775	77
Proliminar:		500					
Tower Foot: Equipment	ng	12990	18186	36947.5	51726.5	69922.58	2226
-Tower Bod		7650	10710	24030	33642	73660.58	2345
-Insulator	Stringe		4900		9800		588
-Conductor	Ottings	2655	5310	5310	10620	10620	531
-conductor		725	725	5275	5275	5275	235
		150		150	150		15
-OGW			150				
~Accessor:		760	1520	1520	3040		228
-Ground Wit -Others	re	137.5	137.5	137.5	137.5	195	19
SUB-TOTAL		28108	42229	78860	114981	173528	6274
Miscellane	DUB	1400.9	2106.95	3938.5	5744.55	8671.9	3132.
Enginering		1967.56	2956.03	5520.2	8048.67	12146.96	4391.
Contingenc		2810.8	4222.9	7886	11498.1	17332.8	627
Import Duty		1269	2441	2393	4688	4756	311
Value Adde		2050.09	3120.6	5681.41		12473.58	4603.7
SUB-TOTAL		9498	14847	25419	39350	55401	2152
TOTAL.	 	37606	57076	104279	153331	228929	6426
Removal		6180	0	0	. 0	0	
DIRECT COS	r	1.37	1.94	3.4	4.85	7.19	2.7
INDIRECT C	OST	0.38	0.59	1.02	1,53	2.22	0.8
FORBIGN CU		0.15	0.28	0.27	0.54	0.54	0.3
LOCAL CURR		1.6	2.25	4,15	5.84	8.87	3.2
TOTAL (mil	1.08\$)	1.75	2.53	4.42	6.38	9.41	3.6

CONSTRUCTION COST-C			VS\$ =	25	Baht	
rear Year	1997	***				
		CHARNG W	ASTRANA / A	TO DODA	DOB 1	
New line ?	0	CHADRO M	MITAMAKIA	IK FORT	0	
	ĭ	0	0	0	ŏ	0
		U	U	v	ő	v
Soil -fair	. 0					
-poor	1				1	
Length (km)	4				4	#
-(kV)	230	230	230	230	500/230	500
-(cct)	2	200	4	4	4	3
-Tower	DC/ST	DC/ST	4cct/ST	4cct/ST	4cct/8T	DC/ST
- (MCM)	10.701	DC/01	4000/01	*CCC/DI	3000/01	00,01
	. 2	4	. 2	4	4	4
-(Number)				_		_
Route Survey	72	72	72	72	72	72
Right of Way	. 0	. 0	. 0	.0	. 0	
Preliminary Work	400	400	400	400	620	620
Power Footing Equipment	10392	14548.8	29558	41381.2	\$5938.07	17808
-Tower Body	6120	8568	19224	26913.6	58928.47	18760
-Insulator Strings	1960	3920	3920	7840	7840	4704
-Conductor	2124	4248	4248	8496	8496	4248
-	580	580	4220	4220	4220	1880
-OGW	120	120	120	120	120	120
-Accessories	608	1216	1216	2432	2432	1824
-Ground Wire	110	110	110	110	156	156
-Others	110	. 110	110	110	130	130
SUB-TOTAL	22486	33783	63088	91985	138823	50192
Siscellaneous	1120.7	1685.55	3150.8	4595.65	6937.55	2506
Enginering & SV.	1574.02	2364-81	4416.16	6436.95	9717.61	3513.44
Contingency	2248.6	3378.3	6308.8	9198.5	13882.3	5019.7
Import Duty	1015	1953	1914	3750	3805	2494
Value Added Tex	1640.03	2496.48	4545.1	6696.41	9978.92	3682.98
SUB-TOTAL	7598	11878	20335	30580	44321	17216
TOTAL.	30084	45661	83423	122665	183144	67406
Ramoval	4944	43000	03123	122003	0	0,400
CONCACT	7717		v	v	v	
DIRECT COST	1.1	1.55	2.72	3.88	5.75	2.21
INDIRECT COST	0.3	0.4B	0.81	1.23	1.77	0.69
FOREIGN CURR.	0.12	0.22	0.22	. 0.43	0.43	0.29
LOCAL CURR.	1.28	1.81	3.31	4.68	7.09	2.61
FOTAL (#111.USS)	1.4	2.03	3.53	5.11	7.52	2.9

25 Baht

Number of Circuit (cct)	4 (A	ctually	double co	n.x2cct
Cable Type	1200mm2, XLP	B	1200mm2,OF	
Section Length (km)	4			
Conduit or Duct	COMPUIT/	DUCT	CONDUIT/	DUCT
	SHEATH		GHEATH	
Number of Joint Box (pcs)	132	120	132	120
Number of Man Hole (pce)	11	10	11	. 10
Line Route Survey	18	18	18	18
Preliminary Work	100	100	100	100
Cable	336	336	240	240
Joint Box	184.8	168	66	60
Cable Head	4.8	4.8	4.8	4.8
Oil Feeding System	Ò	0	80	80
Conduit Pipe	57.6	33.6	57.6	33.6
Cable Pulling	115.2	95.4	115.2	86.4
Conduit with Concrete Sheath or Duc	t 240	136	240	136
Treatment of Load Surface	96	96	96	96
Man Hole	13.2	12	13.2	12
Cable Read	5.9	5,9	5.9	5.9
SUB-TOTAL	1171.5	996.7	1036.7	872.7
Miscellaneous Expense	57.7	48.9	50.9	42.7
Engineering & Supervision	82	69.8	72.6	61.1
Contingency	117.2	99.7	103.7	87.3
Import Duty	204.1	189.8	156.9	146.4
Value Added Tax	95	81.8	82.3	70.1
SUB-TOTAL	556	490	466.4	407.6
TOTAL (mill, Baht)	1727.5	1486.7	1503.1	1280.3
DIRECT COST (mill.US\$)	46.86	39.87	41.47	34.91
INDIRECT COST (#111.US\$)	22.24	19.6	10.66	16.3
FOREIGN CURR. (mill.USS)	23.33	21.7	17.94	16,74
LOCAL CURR. (mill.US\$)	45.77	37.77	42.19	34.47

CONSTRUCTION COST-			US\$:	25	Baht	
Year	1995	TECKE				
Section		· WANG NO	,			
New line ?	1	. MYYO UOI	•		0	
	ó	0		•	ŏ	0
		U	0	0		U
Soil -fair	0				0	
-poor						
Leogth (km)	50				0	
			. #			
-(kV)	230	230	230	230	500/230	500
-(cct)	. 2	2	4	.4	4	2
-Tower	DC/ST	DC/SY	4cct/ST	4cct/87	4cct/8f	DC/ST
-(HCH)						
-(Number)	2	4	2	4	4	4
Route Survey	900	900	900	900	0	0
Right of Way	181406.2	181406.2	181406.2		Ó	Ó
Preliminary Work	5000	5000	5000	5000	Ó	Ò
Yowar Footing	129900	181860	369475	517265	Ó	Ó
Equipment					•	•
-Tower Body	76500	107100	240300	336420	0	0
-Insulator Strings			49000		ŏ	õ
-Conductor	26550	53100	53100		ŏ	ŏ
_	7250	7250	52750		ŏ	ŏ
-0G#	1500	1500	1500	1500	ŏ	ŏ
-Accessories	7500	15200	15200		ŏ	ŏ
-Ground Wire	1375	1375	1375	1375	ŏ	ŏ
-Others	20,0		1374	1073	•	v
SUB-TOTAL	462481	603691	970006	1331216	0	0
Miscellaneous			39384.98		0	0
Enginering & SV.	32373.67	42258.37	67900.42	93185,12	0	0
Contingency	46248.1	60369.1		133121.6	0	0
Import Duty	12693	24410	23928	46880	0	0
Value Added Tex		31205.63	56813.94	83705.28	Ō	Ō
SUB-TOTAL	125824	179312	205028	414337	0	0
TOTAL	588305	783003	1255034	1745553	0	
Removal	Ô	0	0	0	ŏ	ŏ
DIRECT COST	18.5	24.15	38.8	53.25	0	ō
INDIRECT COST	5.03	7,17	11.4	16.57	0	0
FORBIGN CURR,	1.45	2,79	2.73	5.36	0	0
LOCAL CURR.	22.08	26.53	47.47	64.46	0	0
TOTAL (mill.US6)	23.53	31.32	50.2	69.82	0	0

CONSTRUCTION COST-	-04EKKKYD	HINE	US\$:	= 25	Baht	
'ear	2004					
Section		ot. (SANPR	RAN 1) - f	OUTH THOM	Tetter	
few line ?	0				0	
Existing ?	ĭ	0	0	0	ŏ	. 0
oil -fair	õ		•	v	ŏ	٠
-poor	ĭ				ĭ	
angth (km)	8.1				ô	
	4	#			•	
-(XV)	230	230	230	230	500/230	500
(cct)	-šž	2.0	4	4	4	200
Towar	DC/ST	DC/8T	4cct/8T	4cct/8T	4cct/9T	DC/8T
(MCM)	20,01	50,01	40007.01	4000/01	3000/01	DC/01
-(Mumber)	2	4	2	4	4	4
Route Survey	145.8	145.8	145.8	145.8	0	
light of Way	Ö	0		0	ŏ	ō
reliminary Work	810	810	610	810	ŏ	ŏ
ower Pooting			59854.95		ŏ	· ŏ
Squipment					-	•
Tower Body	12393	17350.2	38928.6	54500.04	0	0
-Insulator Strings		7938	7938	15876	ŏ	ō
Conductor	4301.1	8602.2	8602.2	17204.4	Ò	ō
• ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	1174.5	1174.5		8545.5	Ŏ	ō
OCM .	243	243		243	ō	Ō
Accessories	1231.2	2462.4		4924.8	ò	ó
Ground Wire	222.75	222.75	222.75	222.75	ŏ	č
Othera					•	_
SUB-TOTAL	45534	68410	127753	186269	0	C
					_	
(facellaneous	2269,41			9306.16	o	Q
inginering & SV.	3187.3B	4788.7		13038.83	0	0
Contingency	4553.4	6841	12775.3	18626.9	Ō	Ō
Import Duty	2056	3954	3976	7594	ō	Q
/alus Added Tex	3321.094	5055.274	9203.824	13560.20	0	0
UB-TOTAL	15387	24052	41178	62126	0	
TATO	60921	92462	168931	248395	0	0
Resoval	10011.5	0	0	0	0	0
DIRECT COST	2.22	3,14	5.51	7.85	0	Ó
INDIRECT COST	0.62	0.98	1.65	2.49	ŏ	ŏ
PORRIGN CURR.	0.24	0.45	0.44	0.87	0	0
OCAL CURR.	2.6	3.65	6.72	9.47	Ō	ő
OTAL (mill.US\$)	2.84	4.1	7.16			o

Year Section New or Expansion

Number of Circuit 3 (cct) Cable Type Section Langth 1200mm2.OF 1200mm2, XLPE 10 (km) Conduit or Duct COMPUTA DUCT DUCT CONDUIT/ 9NEATH 261 29 225 25 Number of Joint Box (pcs) Number of Men Hole (pcs) 225 25 Line Route Survey Preliminary Work 18 100 18 100 18 100 Cable Joint Box Cable Read Oil Feeding System Conduit Pipe 450 130.5 3.6 80 108 450 112.5 3.6 80 63 630 365.4 3.6 0 108 630 315 3,6 0 63 Cable Pulling Conduit with Concrete Sheath or Duct Treatment of Load Surface Man Hole Cable Read 216 600 240 34.8 4.4 162 340 240 30 4.4 1985.3 1906 1603.5 . SUB-TOTAL 2320.2 98.4 139 198.5 270.2 156.6 79.3 112.2 160.4 248.2 128.4 Miscellaneous Expense Engineering & Supervision Contingency Import Duty Value Added Tax 115.1 162.4 232 387.4 188.3 94.4 133.4 190.6 354.1 156.9 * SUB-TOTAL 1085.2 \$29.4 862.7 728.5 * TOTAL 2848 2332 3405.4 2835.4 (mill.Beht) * DIRECT COST (#111.08\$)
* INDIRECT COST (#111.08\$) 64.14 29.14 44.28 91.94 40.46 72.96 28.36 64.92

(mill.U8\$)

136.22

25 Baht

113.92

93.28

113.42

25 Raht

* TOTAL

New or Expansion	0			
Number of Circuit (cct)	1			
Cable Type	1200mm2.XLF	8	1200mm2,OF	
Section Length (km)	10	_		
Conduit or Duct	CONDUIT/ SHEATE	DUCT	CONDUIT/ SHEATH	DIICT
Number of Joint Box (pcs)	87	75	87	75
Number of Man Hole (pcs)	29	25	29	25
Line Route Survey		0	0	0
Preliminary Work	Ö	0	0	0
Cable	210	210	150	150
Joint Box	121.8	105	43.5	37.5
Cable Read	1.2	1,2	1.2	1.2
Oil Feeding System	0	0	80	60
Conduit Pipe	ō	Ö	0	0
Cable Pulling	72	- 54	72	54
Conduit with Concrete Sheath or Duct	. 0	0	0	0
Treatment of Load Surface	Õ	Ō	0	0
Man Hole	ō	Ö	Ó	. 0
Cable Head	1.5	1,5	1.5	1.5
BUB-TOTAL	406.5	371.7	340.2	324.2
Miscellaneous Expense	20.3	18.6	17.4	16.2
Engineering & Supervision	28.5	26	24.4	22.7
Contingency	40.7	37.2	34.8	32,4
Import Duty	116.5	110.7	96.1	94
Value Added Yex	36.6	33.8	31.1	29.3
SUB-TOTAL	242.6	226.3	203.8	194.6
TOTAL (mill.Beht)	649.1	598	552	518.8
A A				
DIRECT COST (mill. US\$)	16.26	14.87	13.93	12.97
INDIRECT COST (mill.USS)	9.7	9.05	8.15	7.78
FOREIGN CURR. (mill.USS)	13.32	12.65		10.75
LOCAL CURR. (#111.US\$)	12.64	11.27	11.09	10
TOTAL (mill.US\$)	25.96	23.92	22,08	20.75

		CONSTRUCTION COST-C	ו אוניסטטטטט	. TWO	บระ =	25	Baht.	
•		CONSTRUCTION COST-C	TERMENU I	DAAA	034 =	23	Delit	
		Year	1994					
			ATCHADAPI	IBBK - LA	T PHRAO			
		New line ?	0				0	
		Existing ?	0	0	0	0	Ó	0
		Soil -fair	0				Ó	
		-poor	1				1	
		Length (km)	0.5				. 0	
		-(kV)	230	230	230	230	500/230	500
		-(cat)	2	2	4	4	4	2
		-Tower -(MCM)	DC/ST	DC/ST	icct/ST	4cct/8T	4cct/ST	DC/ST
•		-(Number)	2	4	. 2	4	4	4
•		Houte Survey	9	9	9	9	0	ø
		Right of Way	0	0	. 0	0	0	0
		Preliminary Work	50	50	50	50	Ō	0
		Tower Footing Equipment	1299	1818.6	3694.75	5172.65	٥	0
		-Tower Body	765	1071	2403	3364.2	o	0
		-Insclator Strings	245	490	490	980	0	0
		-Conductor	265.5	531	531	1052	0	0
	•		72.5	72.5	527.5	527.5	0	0
		- OCA	15 76	15 152	15 152	15 304	0	0
and the second second		~Accessories	13.75	13.75		13.75	ŏ	Ü
		-Ground Wire -Others	13.75	13.73	13.75	13.75	U	U
	,*	SUB-TOTAL	2811	4223	7886	11498	0	0
•		Miscellaneous	140.1	210.7	393.85	574.45	0	0
		Enginering & SV.	196.77	295.61	552.02	804.86	ŏ	ŏ
		Contingency	281.1	422.3	788.6	1149.6	ŏ	ŏ
		Import Duty	127	244	239	469	ŏ	ŏ
		Value Added Tex	205.03	312.06	568.12	837.06	ő	ō
	•	SUB-TOTAL	950	1485	2542	3835	0	0
		TOTAL	3761	5708	10428	15333	-0	ő
•		Removal	Õ	ő	0	0	Q	ŏ
	_	DIRECT COST		A 12				
		INDIRECT COST	0.11	0.17	0.32 0.1	0.46 0.15	0	0
		FOREIGN CURR.	0.01	0.03	0.03	0.05	0	0
		LOCAL CURR.	0.14	0.2	0.39	0.56	0	0
	•	TOTAL (mill.UGS)	0.15	0.23	0.42	0.61	0	0
· .			~~~~~			 		

•	CONSTRUCTION COST-C	VERHEAD 1	LINB	US\$ ≈	25	Beht	
	**************	1994	***				
	Section F	ATCHADAP:	ISBK - BA	NG KAPI			
	New line ?	0		0	0	0	
	Existing ? Soil -fair	. 0	0	U	O	Õ	0
	-poor	ĭ				ĭ	
	Length (km)	0.5				0	
		\$					•
•	-(kV)	230	230	230	230	500/230	500
	-(cct)	2	2 2	4	4	4	2
	-Tours	DC/ST	DC/ST	4cct/9T	4cct/ST	4cct/ST	DC/ST
	~(MCH)	2	4	. 2	4	4	4
	-(Number)	2		. 2	•	•	•
•	Route Survey	9	9	9	9	0	0
•	Right of Way	0	.0	.0	.0	. 0	0
	Preliminary Work	50 1299	50 1818.6	50 3694.75	50 5172.65	0	0
the state of the s	Tower Footing Equipment	1299	1010.0	3094.73	3172.03	U	v
	-Yower Body	765	1071	2403	3364.2	0	0
	-Insulator Strings	245	490	490	980	0	0
	-Conductor	265.5	531	531	1062	0	0
ϵ	-OGW	72.5 15	72.5 15	527.5 15	527.5 15	ŏ	ŏ
	-Accessories	76	152	152	304	ŏ	ŏ
	-Ground Wire	13.75	13.75	13.75	13.75	. 0	0
	-Others						
	• BUB-TOTAL	2811	4223	7886	11498	0	0
	Miscellaneous	140.1	210.7	393.85	574.45	0	· o
	Enginering & SV.	196,77	295.61	552.02	804.86	0	0
	Contingency	281.1	122.3	788.6	1149.8	o	. 0
The second secon	Import Duty	127	244 312.06	239 568,12	469 837.06	0	0
	Value Added Tax	205.03	312.00	300,12	637.00	· ·	Ū
•	• SUB-TOTAL	950	1485	2542	3835	0	0
•	* TOTAL	3761	5708	10429	15333	0	0
	Removal	0	0	0	0	0	0
· · · ·							
	* DIRECT COST	0.11	0.17	0.32	0.46	0	0
•	* INDIRECT COST	0.04	0.06	0.1	0.15	õ	ŏ
				0.03	.	_	_
:	* FORBIGH CURR. * LOCAL CURR.	0.01 0.14	0.03	0.03	0.05 0.56	0	. 0
	T IACAU CURK.	0.14	V.2	0.39	V.30	v	. •
	* TOTAL (mill.US\$)	0.15	0.23	0.42	0.61	0	0
				· · · · · · · · · · · · · · · · · · ·			
	•						
6	•						
	•						
			•	200			
			3 -	- 36			
			3 -	- 36			
			3 -	- 36			

Year Sand Hand KAPI - KRIONG TONY

25 Baht

New or Expansion	1			
Number of Circuit (cct)	3			
Cable Type	1200ma2,	KLPK	1200=02,0	P
Section Langth (ke)	8			
Conduit or Duct	COMDUIT/		COMDUIT/	DUCT
Worker of Wallet Man dans	BHEATH		SHEATH	
Number of Joint Box (pcs)	207		207	180
Number of Man Role (pcs)	23	20	23	20
Line Route Survey	18	18	18	18
Preliminary Work	100	100	100	100
Cable	504	504	360	360
Joint Box	289.8	252	103.5	90
Cabla Read	3.6	3.6	3.6	3,6
Dil Feeding System	0	0	80	80
Conduit Pipe	86.4	50.4	86.4	50.4
Cable Pulling	172.8	129.6	172.8	129.6
Conduit with Concrete Sheath or Duct	480	272	480	272
Treatment of Load Surface	192	192	192	192
Man Hole	27.5	24	27.6	24
Cable Head	4.4	. 4.4	4.4	4.4
SUB-TOTAL	1878.6	1550	1628.3	1324
Miscellaneous Expense	93	76.6	80.5	65.3
Engineering & Supervision	131.5	108.5	114	92.7
Contingency	187.9	155	162.8	132.4
Import Duty	309.3	283.5	221.7	204.4
Value Added Tex	151.9	127.1	128.2	105.7
BUS-TOTAL	873.6	750.7	707.2	600.5
TOTAL (mill.Baht)	2752.2	2300.7	2335.5	1924.5
DIRECT COST (mill.US\$)	75.14	62	65.13	52.98
INDIRECT COST (#111.UE\$)	34.94	30.03	28.29	24.02
FOREIGN CURR. (mill.US8)	35.35	32.4	25.34	23,36
LOCAL CURR. (mill.US\$)	74.73	\$9.63	68.08	53.62
TOTAL (mill.US\$)	110.0B	92.03	93.42	76.98

New or Expansion	0			
Number of Circuit (cct)	2		··	
Cable Type	1200mm2, XL1	B	1200mm2.OF	
Section Length (km)	8			
Conduit or Duct	CONDUIT/ SHEATH	DUCT	CONDUIT/ SHEATH	DUCT
Number of Joint Box (pcs)	138	120	138	120
Number of Man Hole (pcs)	23	20	23	20
Line Route Survey	0	0		
Preliminary Work	ŏ	ŏ	ŏ	č
Cable	336	336	240	240
Joint Box	193.2	168	69	60
Cable Head	2,4	2.4	2.4	2.4
Dil Feeding System	0	0	80	86
Conduit Pipe	0	0	o	(
Cable Pulling	115.2	86.4	115.2	86.4
Conduit with Concrete Sheath or Duct	0	0	0	•
Freatment of Load Surface	0	0	0	(
Man Hola	0	0	0	(
Cable Reed	2,9	2.9	2.9	2.9
SUB-TOTAL	649.7	595.7	509.5	471.7
Miscellaneous Expense	32,5	29.8	25.5	23.6
Engineering & Supervision	45.5	41.7	35.7	33
Contingency	65	59.5	51	47.2
Import Duty	186.1	177.2	137	133.8
Value Added Tax	58.5	54.1	45.3	42,4
SUB-TOTAL	387.6	352.4	294.5	260
rOTAL (mill.Boht)	1037,3	958.1	804	751.7
DIRECT COST (mill.USS)	25.99	23.83	20.38	18.67
INDIRECT COST (#111.US\$)	15.5	14.5	11.76	11.2
PORBIGN CURR. (mill.US\$)	21,26	20.26	15.66	15.3
LOCAL CURR. (mill.uss)	20.23	18.07	16.5	14.77
rotal (mill.use)	41.49	38.33	32.16	30.07

CONSTRUCTION COST - UNDERGROUND CABLES

ANSAGES - CONSTRUCTION COST - UNDERGROUND CABLES

ANSAGES - CONSTRUCTION COST - UNDERGROUND CABLES

Exchange Rate: 1 US\$ - CONSTRUCTION COST - UNDERGROUND CABLES

Exchange Rate: 1 US\$ - CONSTRUCTION COST -

25 Baht

Number of Circuit (cct)	1			
Cable Type Section Length (km)	1200##2, XLI 8	E	1200mm2, OP	
Conduit or Duct	CONDULT/ SHEATH	DUCT	CONDUIT/ SHEATH	DUC
Number of Joint Box (pcs) Number of Han Role (pcs)	69 23	50 20	69 23	60 20
Line Route Survey Preliminary Work	0	0	0 0	Č
Cable Joint Hox	168 9 5 .6	168 84	120 34.5	120
Cable Head Oll Feeding System Conduit Pipe	1.2 0 0	1.2	1,2 80 0	1.2 80
Cable Pulling	57.6	43.2	57.6	43,2
Conduit with Concrete Sheath or Duct Treatment of Load Surface Han Hole	0	0	0 0	0
Cable Read	1.5	1.5	1.5	1.5
SUB-TOTAL	324.9	297.9	294.8	275.9
Miscellaneous Expense Engineering & Supervision	16.2 22.7	14.9 20.9	14.7 20.6	13.6 19.3
Contingency Import Duty	32.5 93	29.8 88.6	29.5 82.5	27.6 80.9
Velue Added Tex SUB-TOTAL	29.3 193.7	27.1	173.7	166.6
TOTAL (mill.Baht)	518.6	479.2	468.5	442.5
DIRECT COST (mill, USS)	13	11.92	11.79	11.04
INDIRECT COST (mill.US#)	7.75	7.25	6.95	6.66
FORBIGN CURR. (#111.US9) LOCAL CURR. (#111.US9)	10.63 10.12	10.13 9.04	9.43 9.31	9.25 8.45
TOTAL (mill.USS)	20.75	19.17	18.74	17.7

CONSTRUCTION COST-0	****		USS	- 23	Bahk	
Year	2005					
Section 2	SANG KAPI	- ON NU	CH			
New line ?	0				0	
Exiating ?	1	0	0	. 0	0	
Soil -fair	0				Ō	
-poor	1				1	
Length (km)	10				0	
			#			
-(kV)	230	230	230	230	500/230	50
-(cct)	2	2	4	4	4	:
-Tower	DC/ST	DC/ST	4cct/8T	4cct/ST	4cct/8T	DC/8*
-(HCH)						
-(Number)	2	4	2	4	4	•
Route Survey	180	180	180	180	0	
Right of Way	0	0	0		0	
Preliminary Work	1000	1000	1000		Ō	•
Towar Footing	25980	36372	73895	103453	0	
Bouirment	المشماد	44.4				
-Tower Body	15300	21420	48060		o	
-Insulator Strings	4900	9800	9800		0	
-Conductor	5310	10620			0	
	1450	1450	10550	10550	0	
-OGW	300	300			0	
-Accessories	1520	3040	3040		Ó	(
-Ground Wire -Others	275	275	275	275	0	•
SUB-TOTAL	56215	84457	157720	229962	0	
VI and I tanana	2001 25	4313 00	~~~	11400 1	•	
Miscallansous	2801.75	4213.85	7877		Ó	9
Enginering & SV.	3935.05			16097.34	0	9
Contingency	5621.5	8445.7	15772	22996.2	0	9
Import Duty	2539	4882	4786	9376	0	
Value Added Tex	4100.18	6241.13	11362.82	16741.06	0	. (
SUB-TOTAL	18997	29595	50838	76700	Ō	
TOTAL	75212	114152	208558	306662	0	
Removal	12360	0	0	0	0	
DIRECT COST	2.74	3.87	6.8	9.69	0	
INDIRECT COST	0.76	1.19	2.03	3.07	0	(
FOREIGN CURR.	0.29	0.56	0.55	1.07	0	9
LOCAL CURR.	3.21	4.5	8.28	11.69	0	(
TOTAL (mill.US9)	3.5	5.06	8.83	12.76	0	(

		****	***				
Year		2010					
Section		BANG KAPI	- PATAN	AKAN			
Hew line	?	1				0	
Bristing	?	0	0	0	0	0	· ·
Soil	-fair	Ö				Ó	
	-poor	1				1	
Length (k	1)	5				0	
	•	*					
(kV)		230	230	230	230	500/230	500
(cct)		2	2		4	4	
Tower		DC/ST	DC/ST	4cct/8T	4cct/8T	4cct/ST	DC/8
·(HCH)							
-(Number)		2	4	2	4	4	
oute Surv		90	90		90	0	
light of W				18140.62		Q.	1
reliminar		500	500	500	500	Q.	
ower Foot Squipment	ing .	12990	18186	36947.5	51726.5	0	4
Tower Boo	ly	7650	10710	24030	33642	0	
Insulator	Strings	2450	4900	4900	9800	Ġ	
Conductor		2655	5310	5310	10620	Ó	
•		725	725		5275	Ö	
OGW		150	150	150	150	0	
Accessors	es	760	1520			. 0	
Ground Wi Others	te	137.5	137.5	137.5	137.5	0	•
UB-TOTAL		46248	60369	97001	133122	0	•
discallant	Ot B	1400.868	2106.918	3938.518	5744.558	0	
nginering		3237.36		6790.07	9318.54	ŏ	
ontingenc		4624.8	6036.9	9700.1	13312.2	ŏ	
moort Dut		1269	2441	2393	4688	ŏ	,
alue Adde				5581.436		Õ.	
UB-TOTAL		12562	17931	28503	41434	0	
OTAL		58830	78300	125504	174556	ó	
emoval		0	0	0	Ó	Ō	•
TRECT COS		1.85	2.41	3.68	5.32	·····	
MDIRECT COS		0.5	0.72	1.14	1.66	0	ď
	1010	0.15	A 29	0.27	0.64	0	
		U.15	0.28	0.27	0.54	U	
			4 4-	4 75	C **		
ORBIGN CU OCAL CURR		2.2	2,85	4.75	6.44	0	•

CONSTRUCTION COST-	OVERHEAD	FINE	បទទ	s 25	Baht	
	******	***				
Year	2005					
		BANG PHI	ьt			
New line ?	0				0	
Existing ?	1	0	0	0	0	0
Soil -fair	Ō				0	
-poor	1				1	
Length (km)	10.5				0	
-(kV)	230	230	230	230	500/230	500
-(cct)	2	2	4	4	4	2
-Towar	DC/ST	DC/ST	4cct/ST	4cct/8T	4cct/ST	DC/ST
-(HCH)						
-(Number)	. 2	4	2	4	. 4	4
Route Survey	169	189	189	189	0	0
Right of Way	. 0	0	.0	0	Ó	Ó
Preliminary Work	1050	1050	1050	1050	0	0
Tower Pooting	27279	38190.6	77589.75	108625.6	0	0
Boulpment -Tower Body	16065	22491	50463	70548.2	0	0
-Insulator Strings		10290	10290	20580	ŏ	ŏ
-Conductor	5575.5	11151	11151	22302	ŏ	ŏ
-	1522.5	1522.5	11077.5		ŏ	ŏ
-0G4	315	315	315	315	õ	ő
-Accessories	1596	3192	3192	5394	ō	ō
-Ground Wire -Others	288.75	288.75	288.75	288.75	0	0
SUB-TOTAL	59026	88680	165606	241460	0	0
Miscellaneous	2941.85	dana ke	8770 OF	12063.55	0	0
Enginering & SV.	4131.82		11592.42		ŏ	ŏ
Contingency	5902.6	8668	16560.6	24146	ŏ	ŏ
Import Duty	2666	5126	5025	9845	ŏ	ŏ
Value Added Tax	4305.21		11930.94		ŏ	ŏ
SUB-TOTAL	19947	31179	53380	80535	0	
TOTAL	78973	119859	218986	321995	0	0
Ramoval	12978	113039	V10300	321333	ŏ	Ö
	12770		u	. •		V
DIRECT COST	2.88	4.07	7.14	10.18		
INDIRECT COST	0.8	1.25	2.14	3.22	· ŏ	ŏ
FOREIGN CURR.	0.3	0.59	0.57	1.13	0	0
LOCAL CURR.	3.38	4.73	8.71		ŏ	ŏ
					9	•
TOTAL (mill.USS)	3.68	5.32	9.28	13.4	0	0

25 Baht

	1	
CONSTRUCTION C	ost - underground cabi	JB
**********	*************	6.0
	Exchanga Rate	e: 1 DS8 =
Year	2007	
Section	ON NUCH (C)	
New or Expensi.	on .	1

Number of Circuit	(cct)	4			
Cable Type		1200mm2,XL	PR	1200mm2, OF	>
Section Length	(kn)	10			
Conduit or Duct		CONDUIT/	DUCT	CONDUIT/	DUCT
		SHEATH		SHEATH	
Number of Joint Box		348	300	348	300
Number of Man Hole	(pca)	29	25	29	25
Line Route Survey		18	18	18	16
Preliminary Work		100	100	100	100
Cable		840	840	600	600
Joint Box		487.2	420	174	150
Cable Head		4.8	4.8	4.8	4.8
Oil Feeding System		Ŏ	Ö	80	80
Conduit Pipe		144	84	144	84
Cable Pulling		288	216	288	216
Conduit with Concre	te Sheath or Duct		340		340
Treatment of Load 8		240	240	240	240
Man Hole	411600	34.8	30		30
Cable Head		5.9	5.9	5,9	5.9
BUB-TOTAL		2762.7	2298.7	2289.5	1868.7
Miscellaneous Expen	68	137.2	114	113.6	92.5
Engineering & Super		193.4	160.9	160.3	130.8
Contingency		276.3	229.9	229	186.9
Import Duty		516.6	472.1		321.6
Value Added Tax		228.3	192.7		152.1
SUB-TOTAL	· · · · · · · · · · · · · · · · · · ·	1351.8	1169.6	1037.5	883.9
TOTAL (mill.	Beht)	4114.5	3468.3	3327	2752.6
		:			
	.US6)	110.51	91.95		74.75
INDIRECT COST (mill	.US\$)	54.07	46.78	41.5	35.36
FOREIGN CURR. (#111	US\$)	59.04	53.95	40.11	36.75
	.058)	105.54	84.78	92.97	73.30
TOTAL (mill	.DSA)	164.58	138.73	133.08	110.1

CONSTRUCTION COST-C	VERHEAD	LINB	us\$ -	25	Baht	
*********	****	****				
Year	2007					
	א אסכת –	<c></c>			0	
New line ?	9		٥	¢.	Ö	0
Existing ?	1	0	U	U	ŏ	U
Soil -fair	ĭ				ĭ	
-poor	12				ô	
Length (km)	12				. •	
(kV)	230	230	230	230	500/230	500
-(cct)	2	2	4	4	4	2
~Tower	DC/ST	DC/ST	4cct/8T	4cct/8T	4cct/8T	DC/6T
~(MCM)					_	
-(Number)	. 2	4	2	4	4	4
Route Survey	216	216	216	216	0	0
Right of Way	ŏ	Ö		Ö	Ō	Ō
Preliminary Work	1200	1200	1200	1200	0	0
Tower Footing	31176	43646.4	88674	124143.6	0	. 0
Equipment						
-Tower Body	18360	25704	57672	80740.8	0	0
-Insulator Strings	5880	11760	11760	23520	0	0
-Conductor	6372	12744	12744	25488	Q	ø
-	1740	1740	12660	12660	0	0
-bcv	360	360	360	360	0	0
-Accessories	1824	3648	3648	7296	0	0
-Ground Wire -Others	330	330	330	330	٥	. 0
	(0150	101240	189264	275954		ō
BUB-TOTAL	67458	101348		2	-	-
Miscelladeous	3362,1	5056.6	9452.4	13786.9	0	0
Enginering 6 SV.	4722.06		13248.48		o	0
Contingency	6745.8	10134.8	18926.4	27595.4	0	0
Import Duty	3045	5858	5743	11251	ō	0
Value Added Tex	4920.16	7489.3	13635.37	20089.23	0	0
SUB-TOTAL	22796	35633	61006	92039	0	0
TOTAL	90254	136981	250270	367993	0	0
Removal	14932	0	0	0	0	0
DIRECT COST	3.29	4.64	8.16	11.63	·····	o
INDIRECT COST	0.91	1.43		3.68	ŏ	ŏ
POREIGN CURR.	0.35	0.67	0.66	1.29	0	0
LOCAL CURR.	3.85	5.4	9.94	14.02	0	0

Year Section New line 7 Extating 7 Soil -fair -poor Langth (km) -(kV) -(cct) -Tower -(MCM) -(Number) Route Survey Right of May Preliminary Work Tower Footing Equipment -Tower Body -Insuletor Strin -Conductor -GGW	7014.6 4131	230 2 DC/67 48.6 0 270 9820.44 5783.4	270 19951.65 12976.2 2546	48.6 0 270	500/230 4 4cct/st 4	5 DC/
Rristing ? Soli —fair -poor Length (km) -(KV) -(cct) -Tower -(MNAber) Route Survey Right of May Preliminary Work Tower Footing Equipment -Tower Body -Insulator Strin -Conductor -CGW	1 0 1 1 2.7 230 2 DC/8T 2 00 7014.6 4131 1928 1433.7	730 2 2 DC/6T 48.6 0 270 9820.44 5783.4	230 4 4cct/87 2 48.6 0 270 19951.65 12976.2 2646	230 4 4cct/ST 4 48.6 0 270 27932.31 18166.68	500/230 4 4cct/st 4	
Soli -fair -poor Length (km) -(kV) -(cct) -(cct) -Tower -(MCM) -(Number) Route Survey Right of May Preliminary Work Tower Footing Equipment -Tower Body -Insulator Strin -Conductor -CGW	0 1 2.7 230 2 DC/87 2 48.6 0 270 7014.6 4131 1323 1433.7	48.6 0 270 9820.44 5783.4	230 4 4cct/87 2 48.6 0 270 19951.65 12976.2 2646	230 4 4cct/ST 4 48.6 0 270 27932.31 18166.68	500/230 4 4cct/87 4	
-poor Langth (km) -(kV) -(cct) -(cct) -Tower -(Mumber) Route Survey Right of May Preliainary Work Tower Footing BquipmentTower Body -Insulator Strin -Conductor -CGW	230 200/87 200/87 2 48.6 0 270 7014.6 4131 1323 1433.7	# 230 2 DC/6T 48.6 0 270 9820.44 5783.4 2646	46.6 0 270 19951.65 12976.2 2546	4cct/ST 4 48.6 0 270 27932.31 18166.68	500/230 44cct/87 4	
Length (km) -(kV) -(cct) -(cct) -(MCH) -(Number) Route Survey Right of May Preliminary Work Tower Footing Equipment -Tower Body -Insuletor Strin -Conductor -CCW	2.7 230 2 DC/8T 2 48.6 0 270 7014.6 4131 1323 1433.7	# 230 2 DC/6T 48.6 0 270 9820.44 5783.4 2646	46.6 0 270 19951.65 12976.2 2546	4cct/ST 4 48.6 0 270 27932.31 18166.68	0 500/230 4 4cct/sT 4	
-(KV) -(cct) -Tower -(Number) Route Survey Right of May Preliminary Work Tower Footing Bquipment -Tower Body -Insulator Strin -Conductor -CGW	230 2 DC/8T 2 48.6 0 270 7014.6 4131 1323 1433.7	# 230 2 DC/6T 48.6 0 270 9820.44 5783.4 2646	46.6 0 270 19951.65 12976.2 2546	4cct/ST 4 48.6 0 270 27932.31 18166.68	500/230 4 4cct/8T 4	
-{cct} -Tower -(MCM) -(NMaber) Route Survey Right of May Preliminary Work Tower Footing Equipment -Tower Body -Insuletor Strin -Conductor -CCW	20C/8T 2 48.6 0 270 7014.6 4131 1323 1433.7	48.6 48.6 0 270 9820.44 5783.4 2646	46.6 0 270 19951.65 12976.2 2546	4cct/ST 4 48.6 0 270 27932.31 18166.68	4 4 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-Tower -(MCM) -(Musber) Route Survey Right of May Preliminary Work Tower Footing Equipment -Tower Body -Insulator Strin -Conductor -OGW	10C/8T 2 48.5 0 270 7014.6 4131 1323 1433.7	48.6 0 270 9820.44 5783.4 2646	48.6 0 270 19951.65 12976.2 2546	48.6 0 270 27932.31 18166.68	0 0 0 0	DC/
-(MCM) -(Number) Route Survey Right of May Preliminary Work Tower Footing Equipment -Tower Body -Insulator Strin -Conductor -COCW	48.5 0 270 7014.6 4131 98 1323 1433.7	48.6 0 270 9820.44 5783.4 2646	48.6 0 270 19951.65 12976.2 2546	48.6 0 270 27932.31 18166.68	0 0 0 0	юс <i>)</i>
-(Number) Route Survey Right of May Preliminary Work Tower Footing Equipment -Tower Body -Insulator Strin -Conductor -COCW	48.5 0 270 7014.6 4131 98 1323 1433.7	48.6 0 270 9820,44 5783.4 2646	48.6 0 270 19951.65 12976.2 2546	48.6 0 270 27932.31 18166.69	0 0 0 0	
Right of Way Preliminary Work Tower Footing Equipment -Tower Body -Insulator Strin -Conductor -GGW	0 270 7014.6 4131 98 1323 1433.7	0 270 9820.44 5783.4 2646	0 270 19951.65 12976.2 2646	0 270 27932.31 18166.68	0 0 0	
Preliminary Work Tower Footing Equipment -Tower Body -Insuletor Strin -Conductor -CGW	270 7014:6 4131 ge 1323 1433.7	270 9820.44 5783.4 2646	270 19951.65 12976.2 2546	270 27932.31 18166.68	0 0	•
Tower Footing Equipment -Tower Body -Insulator Strin -Conductor -CGW	7014.6 4131 ge 1323 1433.7	9820,44 5783.4 2646	19951.65 12976.2 2646	27932.31 18166.68	0	-
Equipment -Tower Body -Insulator Strin -Conductor -CGW	4131 ge 1323 1433.7	5783.4 2646	12976.2 2546	18166.69	0	-
-Insulator Strin -Conductor -COW	ge 1323 1433.7	2646	2545			
-Conductor	1433.7			5292	^	
-ocw		2857.4				
-OGW			2067.4 2648.5	5734.8 2848.5	0	
	81	391.5	2848.5 81	2816.5	ŏ	
-Accessories	410.4	820.8	820.8		0	
-Ground Wire -Others	74.25	74.25	74.25	74.25	ŏ	
SUB-TOTAL	15178	22803	42584	62090	0	
Miscellaneous	756.47	1137.72	2126.77	3102.07	0	
Enginering & SV.	1062.46	1596,21	2980.88	4346.3	Ō	
Contingency			4258.4	6209	0	
Import Duty			1292	2531	Ō	
				4520.068		_
SUB-TOTAL	5129	8017	13726	20708	0	
TOTAL	20307	30820	56310	82798	0	
Removal	3337.2	0	0	. 0	0	
DIRECT COST	0.74	1 04	1 03	2 51		
INDIRECT COST	0.21	0.32	0.55	0.83	ŏ	
FOREIGN CURR.	0.08	0.15	0.15	0.29	0	
LOCAL CURR.	0.87	1.21	2.23	3.15	o.	
MANAR (-11)					-	
	Enginering & SV. Contingency Import Duty Value Added Tax SUB-TOTAL TOTAL TOTAL REMOVE! DIRECT COST INDIRECT COST FORRIGN CURR. LOCAL CURR.	Enginering & SV. 1062.46 Contingency 1517.8 Import Duty 685 Value Added Tax 1107.008 SUB-TOTAL 5129 TOTAL 20307 Removal 3337.2 DIRECT COST 0.74 INDIRECT COST 0.21 FORBIGN CURR. 0.08 LOCAL CURR. 0.87	Enginering & SV. 1062.46 1596.21 Contingency 1517.8 2280.3 Import Duty 685 1318 Value Added Tax 1107.008 1685.068 SUB-TOTAL 5129 8017 TOTAL 20307 30820 Removal 3337.2 0 DIRECT COST 0.74 1.04 INDIRECT COST 0.21 0.32 FORBIGN CURR. 0.08 0.15 LOCAL CURR. 0.87 1.21	Enginering & SV. 1062.46 1596.21 2980.88 Contingency 1517.8 2280.3 4258.4 Import Duty 685 1318 1292 Value Added Tax 1107.008 1685.068 3057.918 SUB-TOTAL 5129 8017 13726 TOTAL 20307 30820 56310 Removal 3337.2 0 0 DIRECT COST 0.74 1.04 1.83 INDIRECT COST 0.21 0.32 0.55 FORBIGN CURR. 0.08 0.15 0.15 LOCAL CURR. 0.87 1.21 2.23	Enginering & SV. 1062.46 1595.21 2980.88 4346.3 Contingency 1517.8 2280.3 4258.4 6209 Import Duty 685 1318 1292 2531 Value Added Tax 1107.008 1585.068 3067.918 4520.068 SUB-TOTAL 5129 8017 13726 20708 TOTAL 20307 30820 56310 92798 Removal 3337.2 0 0 0 DIRECT COST 0.74 1.04 1.83 2.51 INDIRECT COST 0.21 0.32 0.55 0.83 FORBIGN CURR 0.08 0.15 0.15 0.29	Enginering & SV. 1062.45 1596.21 2980.88 4346.3 0 Contingency 1517.8 2280.3 4258.4 6209 0 Import Duty 685 1318 1292 2531 0 Value Added Tax 1107.008 1685.068 3067.918 4520.068 0 SUB-TOTAL 5129 8017 13726 20708 0 TOTAL 20307 30820 56310 82798 0 Removal 3337.2 0 0 0 0 0 DIRECT COST 0.74 1.04 1.83 2.61 0 DIRECT COST 0.21 0.32 0.55 0.83 0 FOREIGN CURR. 0.08 0.15 0.15 0.29 0 LOCAL CURR. 0.87 1.21 2.23 3.15 0

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	CONSTRUCTION COST	-OVERHEAD	LINE	086 -	25	Baht	•
	Year	2000					
	Section	BANG PRLI	- BANG E	KOR			
	New line ?	1				0	
	Existing ?	0	0	0	0	0	. 0
	Soil -fair	ō				Ō	
	-poor	i				1	
	Length (km)	ĩ				. 0	
		#					
	-(kV)	230	230	230	230	500/230	500
	-(cct)	2	2	. 4	4	4	2
	-Tower	DC/ST	DC/ST	4cct/8T	4cct/ST	4cct/ST	DC/ST
	-(HCM)		,	,			
	-(Number)	2	4	2	. 4	4	4
	Route Survey	18	18	18	18	0	o
	Right of Way	3628.125	3628.125	3628.125	3628.125	0	0
	Preliminary Work	100	100	100	100	0	0
	Tower Footing Equipment	2598	3637.2	7389.5	10345.3	0	0
	-Tower Sody	1530	2142	4806	6728.4	0	0
	-Insulator String		980	980	1960	ŏ	ŏ
	-Conductor	531	1062	1062	2124	ŏ	ŏ
	-conductor	145	145	1055	1055	ŏ	ŏ
	-ogy	30	30	30	30	ŏ	ŏ
	-Accessories	152	304	304	608	ŏ	ŏ
	-Accessories -Ground Wire	27,5	27.5	27.5	27.5	ň	ŏ
	-Others	21,3	41.3	21.3	21.3	v	v
	. SUB-TOTAL	9250	12074	19400	26524	0	ō
	Miecellaneous	280.1937	421.3937	787.6937	1148.893	0	0
	Enginering & SV.	647.5	845.18	1358	1863.68	0	0
	Contingency	925	1207.4	1940	2662.4	0	0
	Import Duty	254	488	479	938	0	0
	Value Added Tax	410.0512	624.1112	1136.301		Ó	O
*.	* SUB-TOTAL	2517	3586	5701	8287	0	0
	# N. P. P.	11767	15772	7630	24014	0	ô
	· TOTAL		15660		34911	0	0
	Removal	. 0	0	0	0	v	V
	• DIRECT COST	0.37	0.48	0.78	1.06	0	0
	* INDIRECT COST	0.1	0.14	0.23	0.33	ŏ	ŏ
	* FORRIGH CURR.	0.03	0.06	0.05	0.11	0	0
	. LOCAL CURR.	0.44		0.96	1.28	0	0
	* TOTAL (mill.UE\$)	0.47			1.39	0	0

CONSTRUCTION COST-OVERREAD LINE US6 = 25 Beht ************************************	0
Year 2000 Section BANG PARONG - BANG BOR New line ? Existing ? 0 0 0 0 0 0 0 Soil -feir 0 0 0 0 -poor 1 1 1 Langth (km) 1 0 0 -(kV) 230 230 230 230 230 500/230 -(cct) 2 2 2 4 4 4 -Tower DC/ST DC/ST 4cct/ST 4cct/ST DC/ST DC/-(MCM)	00
Section	00
New line ?	00
Existing 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00
Soil	
-poor 1 1 0 0 2 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
Langth (km) 1	
-(kV) 230 230 230 230 500/230 5 -(cct) 2 2 4 4 4 -Yower DC/ST DC/ST 4cct/ST 4cct/ST DC/ST (MCS)	
-{cct} 2 2 4 4 4 - Tower DC/ST DC/ST 4cct/ST 4cct/ST 4cct/ST DC/ST (RCR)	
-Yower DC/ST DC/ST 4cct/ST 4cct/ST 4cct/ST DC/	2
-(RCS)	
	8T
(Number) 2 4 2 4 4	
-(namops) % 3 m 3 m	4
Route Survey 18 18 18 18 0	O.
Right of Way 3628.125 3628.125 3628.125 3628.125 0	0
Preliminary Work 100 100 100 100 0	0
Tower Footing 2598 3637.2 7389.5 10345.3 0	0
Equipment	
-Tower Body 1530 2142 4806 6728.4 0	Ð,
-Insulator Strings 490 980 980 1960 0	0
-Conductor 531 1062 1062 2124 0	0
– 145 145 1055 1055 0	0
-ocw 30 30 30 0	Q
-Accessories 152 304 304 608 0	0
-Ground Wire 27.5 27.5 27.5 0	0
-Others	
SUB-TOTAL 9230 12074 19400 26624 0	0
Miscellaneous 280.1937 421.3937 787.5937 1148.893 0	0
Enginering & SV. 647.5 845.18 1358 1863.68 0	ŏ
Contingency 925 1207.4 1940 2662.4 0	ŏ
Import Duty 254 488 479 938 0	ŏ
Value Added Tex 410.0512 624.1112 1136.301 1674.111 0	ŏ
SUB-TOTAL 2517 3586 5701 8267 0	0
TOTAL 11767 15660 25101 34911 0	0
Removal 0 0 0 0 0	0
• DIRECT COST 0.37 0.48 0.78 1.06 0	0
	ŏ
• INDIRECT COST 0.1 0.14 0.23 0.33 0	٠
• PORRIGN CORR. 0.03 0.06 0.05 0.11 0	0
■ LOCAL CURR. 0.44 0.56 0.96 1.28 0	Ò
	0
• TOTAL (mill.US\$) 0.47 0.62 1.01 1.39 0	v

	. *							
	4							
•								
•								
•		CONSTRUCTION COST-	OVERHEAD	LINE	US\$	<u>= 25</u>	Baht	
		Year	2002					
		Section	CHARRG W	АТТНАНА -	<a>>			
		New line ? Existing ?	0	. 0	. 0	o	0	0
		Soil -fair	Ō		•	Ū	Ò	•
		-poor Length (km)	7.1		-		7.1	
		, ,					*	
		-(k¥)	230	230	230	230	500/230	500
		-(cct) -Tower	DC/ST	2	. 4	4	4	DC/ST
		~{HCM}				_	•	•
		-(Number)	2	4	. 2	4	4	4
•		Route Survey	127.8	127.8	127.8			127.8
		Right of Way Preliminary Work	710			710		0 1100.5
		Towar Footing Equipment	18445.8	25824.12		73451.63		31609.2
		-Towar Body	10863			47771.64		33299
		→Insulator Strings -Conductor	3479 3770.1	6958 7540.2	6958 7540.2			8349.6 7540.2
		-	1029.5	1029.5	7490.5	7490.5	7490.5	3337
		-OGW -Accessories	213 1079,2	213 2158.4	213 2158.4		213 4316.8	213 3237.6
		-Ground Wire	195.25	195.25	195.25	195.25	276.9	276.9
		-Others						
		• SUB-TOTAL	39913	59964	111981	163273	246410	89091
		Miscellaneous	1989.26	2991.61	5592.66	8157,26	12314.11	4448.16
•		Enginering & 6V.	2793.91	4197.48	7838.67	11429.11	17248.7	6236.37
		Contingency Import Duty	3991.3 1802	5996.4 3466	11198.1 3398	16327.3 6657	24641 6754	8909.1 4428
	•		2911.104			11866.15		
		# SUB-TOTAL	13488	21083	36095	54457	78670	30559
		* TOTAL	53401	81047	148076	217730	325080	119650
		Removal	8775.6	0	0			0
		DIRECT COST	1.95	2.75	4.83	6.88	10.21	3.91
· · · · · · · · · · · · · · · · · · ·		▲ INDIRECT COST	0.54	0.84	1.44	2.18	3.15	1.22
		* FORRIGN CURR. * LOCAL CURR.	0.21 2.28	0.4 3.19	0.39 5.88	0.76	0.77	0.51
	2					8.3	12.59	4.62
•		* TOTAL (mill.US\$)	2.49	3.59	6.27	9.06	13.36	5.13
•			·····				· · · · · · · · · · · · · · · · · · ·	

25 Baht

aw or Expansion		

	Number of Circuit	(cct)	5			
	Cable Type Section Langth	(km)	1200mm2, XLP	E	1200mm2,OF	
	Conduit or Buct		CONDUIT/ SHEATH	DUCT	COMDUIT/	DUCT
	Number of Joint Box	/nest	390	345	390	345
	Number of Man Bole		26	23	26	23
	Line Route Survey		18	18		18
	Praliminary Work		100	100	100	100
	Cable		945	945	675	675
	Joint Box		546	483	195	172.5
	Cable Head		6	6	6	. 6
	Oil Feeding System		0	. 0	80	80
	Conduit Pipe	•	162	94.5	162	94.5
	Cable Pulling		324	243	324	243
	Conduit with Concre	ate Sheath or Duct	540	306		306
	Treatment of Load	Surface	216	216	216	216
	Man Role		31.2	27.6	31.2	27.6
	Cable Head		7.3	7.3	7.3	7.3
ı	SUB-TOTAL		2895.5	2446.4	2354.5	1945.9
	Miscellaneous Expe		143.9	121.4		96.4
	Engineering & Supe	rvision	202.7	171.2		136.2
	Contingency		289.6	244.6		194.6
,	Import Duty		580.7	535		359.8
	Value Added Tax		242.1	207.4	. 190.9	160.1
١,	SUB-TOTAL		1459	1279.6	1099.3	947.1
	TOTAL (mill	.Baht)	4354.5	3726	3453.8	2893
		i.uss)	115.82	97.86		77.84
Ŀ	INDIRECT COST (mi)	1.06\$)	58.36	51.18	43.97	37.08
	FOREIGN CURR. (M11	i.US\$)	66.36	61.14	44.72	41.12
		1.050)	107.82	87.9		74.6
		1.098)		149.04	138.15	115.72

25 Baht

New or Expansion	0			
Number of Circuit (cct)	1			
Cable Type	1200mm2, XL	PE	1200ma2, QP	
Section Laugth (km)	9			
Conduit or Duct	CONDUIT/ SHEATH	DUCT	CONDUIT/ SHEATH	DUCT
Number of Joint Box (pcs)	78	69	78	69
Number of Man Hole (pcs)	26	23	26	23
Line Route Survey	0	0	0	0
Preliminary Work	Ò	0	0	0
Cable	189	189	135	- 135
Joint Box	109.2	96.6	39	34.5
Cable Head	1.2	1.2	1.2	1.2
Oil Feeding System	0	0	- 80	80
Conduit Pipe	0	. 0	0	0
Cable Pulling	64.8	48.6	64.8	48.6
Conduit with Concrete Sheath or Duci	. 0	0	0	0
Treatment of Load Surface	0	0	0	0
Man Hole	0	0	0	0
Cable Head	1.5	1.5	1.5	1.5
SUB-TOTAL	365.7	336.9	321.5	300.8
Miacellaneous Expense	18.3	16.8	16.1	15
Engineering & Supervision	25.6	23.6		21.1
Contingency	36.6	33.7	32.2	30.1
Import Duty	104.8	100.4	89.3	87.7
Velue Added Taz	32.9	30.6	20.8	27.2
SUB-TOTAL	218.2	205.1	188.9	181.1
TOTAL (mill.Saht)	583.9	542	510.4	481.9
DIRECT COST (#111.USS)	14.63	13.48	12.86	12.03
INDIRECT COST (all1.03\$)	8.73	8.2		7.24
FORBIGN CURR. (mill.USS)	11.98	11.47		10.03
LOCAL CURR. (mill.US\$)	11.38	10.21	10.21	9.24
* TOTAL (mill.US\$)	23.36	21.68	20.42	19,27

				•			
	CONSTRUCTION COST-C	VERHEAD L	TNR	US8 =	25	Beht	
	************	********					
	Year Section <	2009 :C> - BARG	PARONG	2			
	New line 7	0				0	•
	Existing ? Soil -fair	. 0	0	0	0	0	0
	~poor	1				1	
	Length (km)	2 #				U	
	-(kV)	230	230	230	230	500/230	500
	-(cct) -Tower	DC/81	DC/8T	4cct/8T	4cct/ST	4cct/87	DC/64
	-(HCM) -(Number)	2	4	2	4	4	4
	Route Survey	36	36	36	36	0	0
	Right of Way	0	0	. 0	0	0	0
	Preliminary Work Tower Footing	200 5196	200 7274.4	200 14779	200 20690.6	0	0
	Equipment	3050	4284	9612	13456.8	b	0
	-Tower Body -Insulator Strings	980	1960	1960	3920	ŏ	ŏ
	-Conductor	1062	2124	2124	4248	0	0 D
	-0GW	290 60	290 60	2110 60	2110 60	0	ó
	-Accessories	304	608	608	1216	0	0
	-Ground Wire -Others	55	55	55	55	U	0
	SUB-TOTAL	11243	16891	31544	45992	0	0
	Miscellaneous	560.35	842.75	1575.4	2297.8	0	0
	Eaginering & SV.	707.01	1182.37	2208.08	3219.44	0	0
	Contingency Import Duty	1124.3 508	1689,1 976	3154.4 957	4599.2 1875	0	0
	Value Added Tex	820.05	1248.17	2272.55	3348.17	0	0
•	SUB-TOTAL	3800	5938	10167	15340	0	. 0
•	TOTAL Removal	15043 2472	22829 0	41711 0	61332 0	0	0
	Infrarco A C T	2472	٠	v	J	·	
R	DIRECT COST	0.55	0.78	1.36	1.94	Ó	0
*	indirect cost.	0.15	0.24	0.41	0.61	0	0
•	FORBIGN CURR. LOCAL CURR.	0.06 0.64	0.11 0.91	0.11 1.66	0.21 2.34	0	0
	TOTAL (mill.US\$)	0.7	1.02	1.77	2.55	0	0
	CONSTRUCTION COST-(OVERHEAD 1	LINR	US\$ ×	: 25	Bent	

	Section	C> - BANC	PARONG	2			
	New line ? Existing ?	0 1	0	0	0	0	0
	Soil -fair	0				0	
	-poor Langth (km)	1 2				1	
		#					
	-(kV)	230	230	230	230	500/230	500
	-(cct) -Towar	DC/ST	DC/ST	4cct/ST	4cct/ST	4cct/ST	DC/81°
	~(MCM) ~(Number)	2	4	2	4	4	4
	Route Survey	36	36	36	36	0	0
	Right of Way	0	0	0	0	0	0
	Preliminary Work Tower Footing	200 5196	200 7274.4	200 14779	200 20690.6	0	0
	Equipment						
	-Tower Body -Insulator Strings	3060 980	4284 1960	9612 1960	13456.8 3920	0	0 9
	-Conductor	1062 290	2124 290	2124 2110	4248 2110	0	0
	-OGW	60	60	60	60	0	O.
	-Accessories -Ground Wire	304 55	608 55	60B 55	1216 55	0	0
	-Othera						
	SUB-TOTAL	11243	16891	31544	45992	0	0
	Miscellaneous Enginering & SV.	560.35 787.01	842.75 1182.37	1575.4 2208.08	2297.8 3219.44	0	0
	Contingency Import Duty	1124.3	1689.1	3154.4	4599.2	0	0
	Value Added Tax	508 820.05	976 1248.17	957 2272.55	1875 3348.17	0	0
	art mant	2000	5040	10167	15340		

10167

41711 0

1.36

0.11

1.77

5938

22829 0

> 0.78 0.24

0.11 0.91

1.02

3600

15043 2472

> 0.55 0.15

> 0.06

0.7

15340

61332 0

1.94

0.21 2.34

2.55

0

0

0

0

0

0

0

0

0

* SUB-TOTAL

* DIRECT COST • INDIRECT COST

* FORBIGN CURR. * LOCAL CURR.

* TOTAL (#111.05\$)

* TOTAL Removal

OTAL (mill.U86)	0.94	1.26	2.01	2.79	0	0
OCAL CURR,	0.88	1.15	1.9	2.58	ŏ	ŏ
OREIGN CURR.	0.06	0.11	0.11	6.21	0	0
NDIRECT COST	0.2	0.29	0.46	0.66	ŏ	ŏ
IRECT COST	0.74	0.97	1.55	2.13	0	0
						·
emoval	0	0	0	0	ŏ	ŏ
OTAL	23532	31320	50201	69822	0	0
UB-TOTAL	5033	7172	11401	16573	0	0
					-	0
alue Added Tax		1248.222	7777 527	3348 333 18/2	0	0
Mport Duty	508	976	957	5324,9 1875	0	0
ontingency	1849.9	2414.8	3880	3727.43 5324.9	0	0
nginering & Sy.	1294.93	1690.36	2716		0	0
iscalianeous		842.7875			•	_
UB-TOTAL	18499	24148	38800	53249	0	0
Othera	•	7,5	7,5	,,,	V	U
Ground Wire	55	55	55	55	0	0
Accessories	304	608	608	1216	0	0
OGW	60	490 60	60		0	0
· ·	290	2124	2124	4248	0	0
Conductor	1062	2124	2124		0	9
Insulator String	a 980		1960		0	0
Tower Body	3060	4284	9612	12456 -		
Quipment	5198	7274.4	14779	20690.6	0	C
ower Pooting	200		200		0	
Right of Way Preliminary Work	7256,25				0	
Route Survey	36				Õ	(
Davida Composition						
-(MCM). -(Number)	2	4	2	. 4	4	
-Yower	DC/ST	DC/ST	4cct/8T	4cct/81	4cat/ST	DC/81
(cct)	2	2	4		4	500
-(kV)	230	230	230	230	500/230	
					v	
Length (km)	ż				0	
-poor	ĭ				i	
Soil -fair	ŏ			· v	0	•
Existing ?	á				0	
Hew line ?	107 - 11					
Section		LONG MAI				
	2009					
Year	****					

