

APPENDIX — D

COST ESTIMATE

APPENDIX-D COST ESTIMATE

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D-1 PROJECT COST OF DEVELOPMENT PLAN

Project Cost of Development Plan (Case-1 , 1st Stage)

(Million Baht)

Description	Lam Ta Khong Project		
	F. C.	L. C.	Total
1. Preliminary Works	0.00	126.95	126.95
2. Environmental Mitigation	0.00	149.24	149.24
3. Civil Works	1,268.77	1,468.59	2,737.36
4. Hydraulic Equipment	570.94	362.77	933.71
5. Electro-mechanical Equipment	2,593.77	402.51	2,996.28
6. Transmission System	164.37	69.23	233.60
7. EGAT Administration	0.00	218.55	218.55
8. Engineering Service	152.54	61.29	213.83
9. Import Duties and Taxes	0.00	390.04	390.04
10. Interest During Construction	0.00	1,516.74	1,516.74
TOTAL PROJECT COST	4,750.40	4,765.90	9,516.30

Project Cost of Development Plan (Case-1, 2nd Stage)

(Million Baht)

Description	Lam Ta Khong Project		
	F. C.	L. C.	Total
1. Preliminary Works	0.00	102.31	102.31
2. Environmental Mitigation	0.00	149.24	149.24
3. Civil Works	965.71	1,201.60	2,167.31
4. Hydraulic Equipment	518.60	280.50	799.10
5. Electro-mechanical Equipment	2,459.80	388.21	2,848.01
6. Transmission System	557.04	234.62	791.66
7. EGAT Administration	0.00	220.21	220.21
8. Engineering Service	152.54	61.29	213.83
9. Import Duties and Taxes	0.00	453.51	453.51
10. Interest During Construction	0.00	1,422.94	1,422.94
TOTAL PROJECT COST	4,653.69	4,514.43	9,168.12

Project Cost of Development Plan (Case-2 , 1st Stage)

(Million Baht)

Description	Lam Ta Khong Project		
	F. C.	L. C.	Total
1. Preliminary Works	0.00	164.32	164.32
2. Environmental Mitigation	0.00	161.68	161.68
3. Civil Works	1,690.50	1,863.87	3,554.37
4. Hydraulic Equipment	570.94	400.99	971.94
5. Electro-mechanical Equipment	2,548.14	399.29	2,947.44
6. Transmission System	164.37	69.23	233.60
7. EGAT Administration	0.00	243.44	243.44
8. Engineering Service	170.66	68.94	239.60
9. Import Duties and Taxes	0.00	384.92	384.92
10. Interest During Construction	0.00	1,718.35	1,718.35
TOTAL PROJECT COST	5,144.62	5,475.05	10,619.66

Project Cost of Development Plan (Case-2 ; 2nd Stage)

(Million Baht)

Description	Lam Ta Khong Project		
	F. C.	L. C.	Total
1. Preliminary Works	0.00	32.49	32.49
2. Environmental Mitigation	0.00	111.93	111.93
3. Civil Works	292.42	440.44	732.86
4. Hydraulic Equipment	505.38	233.49	738.87
5. Electro-mechanical Equipment	2,371.72	378.79	2,750.50
6. Transmission System	557.04	234.62	791.66
7. EGAT Administration	0.00	170.10	170.10
8. Engineering Service	115.74	48.96	164.70
9. Import Duties and Taxes	0.00	442.15	442.15
10. Interest During Construction	0.00	1,029.77	1,029.77
TOTAL PROJECT COST	3,842.30	3,122.75	6,965.05

Project Cost of Development Plan (Case-3 , 1st Stage)

(Million Baht)

Description	Lam Ta Khong Project		
	F. C.	L. C.	Total
1. Preliminary Works	0.00	186.69	186.69
2. Environmental Mitigation	0.00	186.55	186.55
3. Civil Works	1,889.50	2,145.32	4,034.82
4. Hydraulic Equipment	1,076.32	703.84	1,780.16
5. Electro-mechanical Equipment	2,546.41	398.58	2,944.98
6. Transmission System	164.37	69.23	233.60
7. EGAT Administration	0.00	281.68	281.68
8. Engineering Service	197.84	80.42	278.27
9. Import Duties and Taxes	0.00	441.42	441.42
10. Interest During Construction	0.00	1,994.04	1,994.04
TOTAL PROJECT COST	5,874.44	6,487.77	12,362.21

Project Cost of Development Plan (Case-3 , 2nd Stage)

(Million Baht)

Description	Lam Ta Khong Project		
	F.C.	L.C.	Total
1. Preliminary Works	0.00	0.00	0.00
2. Environmental Mitigation	0.00	71.99	71.99
3. Civil Works	5.62	38.10	43.71
4. Hydraulic Equipment	0.00	0.00	0.00
5. Electro-mechanical Equipment	1,945.81	231.33	2,177.14
6. Transmission System	533.65	225.57	759.22
7. EGAT Administration	0.00	115.06	115.06
8. Engineering Service	80.19	33.92	114.12
9. Import Duties and Taxes	0.00	342.90	342.90
10. Interest During Construction	0.00	553.42	553.42
TOTAL PROJECT COST	2,577.62	1,693.54	4,271.15

Project Cost of Development Plan (Case-4)

(Million Baht)

Description	Lam Ta Khong Project		
	F. C.	L. C.	Total
1. Preliminary Works	0.00	183.12	183.12
2. Environmental Mitigation	0.00	248.73	248.73
3. Civil Works	1,894.61	2,181.79	4,076.40
4. Hydraulic Equipment	1,076.32	703.84	1,780.16
5. Electro-mechanical Equipment	4,625.98	729.47	5,355.45
6. Transmission System	639.23	269.24	908.46
7. EGAT Administration	0.00	373.35	373.35
8. Engineering Service	261.27	107.21	368.48
9. Import Duties and Taxes	0.00	776.48	776.48
10. Interest During Construction	0.00	2,603.20	2,603.20
TOTAL PROJECT COST	8,497.39	8,176.43	16,673.83

Project Cost of Development Plan (Alternative-1,1st Stage)

(Million Baht)

Description	Lam Ta Khong Project		
	F. C.	L. C.	Total
1. Preliminary Works	0.00	151.00	151.00
2. Environmental Mitigation	0.00	155.46	155.46
3. Civil Works	1,552.35	1,694.49	3,246.84
4. Hydraulic Equipment	581.78	410.06	991.84
5. Electro-mechanical Equipment	2,548.14	399.29	2,947.44
6. Transmission System	164.37	69.23	233.60
7. EGAT Administration	0.00	232.37	232.37
8. Engineering Service	162.77	65.61	228.37
9. Import Duties and Taxes	0.00	386.14	386.14
10. Interest During Construction	0.00	1,646.22	1,646.22
TOTAL PROJECT COST	5,009.42	5,209.87	10,219.29

Project Cost of Development Plan (Alternative-1, 2nd Stage)

(Million Baht)

Description	Lam Ta Khong Project		
	F. C.	L. C.	Total
1. Preliminary Works	0.00	51.51	51.51
2. Environmental Mitigation	0.00	118.15	118.15
3. Civil Works	483.73	651.53	1,135.26
4. Hydraulic Equipment	506.88	333.32	840.20
5. Electro-mechanical Equipment	2,371.72	378.79	2,750.50
6. Transmission System	557.04	234.62	791.66
7. EGAT Administration	0.00	171.82	171.82
8. Engineering Service	118.53	46.92	165.45
9. Import Duties and Taxes	0.00	442.32	442.32
10. Interest During Construction	0.00	1,145.89	1,145.89
TOTAL PROJECT COST	4,037.90	3,574.88	7,612.78

Project Cost of Development Plan (Alternative-2)

(Million Baht)

Description	Lam Ta Khong Project		
	F. C.	L. C.	Total
1. Preliminary Works	0.00	144.45	144.45
2. Environmental Mitigation	0.00	149.24	149.24
3. Civil Works	1,401.42	1,707.29	3,108.71
4. Hydraulic Equipment	481.78	367.69	849.47
5. Electro-mechanical Equipment	2,525.01	385.98	2,910.98
6. Transmission System	146.11	61.54	207.65
7. EGAT Administration	0.00	221.77	221.77
8. Engineering Service	155.24	62.42	217.66
9. Import Duties and Taxes	0.00	368.41	368.41
10. Interest During Construction	0.00	1,560.53	1,560.53
TOTAL PROJECT COST	4,709.55	5,029.32	9,738.87

D-2 ECONOMIC COST OF DEVELOPMENT PLAN

Economic Cost of Development Plan (CASE-1,1st Stage)

(Million Baht)

Description	Lam Ta Khong Project		
	F. C.	L. C.	Total
1. Preliminary Works	0.00	119.46	119.46
2. Environmental Mitigation	0.00	132.00	132.00
3. Civil Works	1,109.90	1,279.08	2,388.98
4. Hydraulic Equipment	475.09	308.99	784.08
5. Electro-mechanical Equipment	2,137.41	337.50	2,474.91
6. Transmission System	134.82	57.78	192.60
7. EGAT Administration	0.00	187.00	187.00
8. Engineering Service	133.10	53.90	187.00
TOTAL ECONOMIC COST	3,990.32	2,475.71	6,466.03

Economic Cost of Development Plan (CASE-1,2nd Stage)

(Million Baht)

Description	Lam Ta Khong Project		
	F.C.	L.C.	Total
1. Preliminary Works	0.00	96.69	96.69
2. Environmental Mitigation	0.00	132.00	132.00
3. Civil Works	844.79	1,046.54	1,891.33
4. Hydraulic Equipment	431.53	238.92	670.45
5. Electro-mechanical Equipment	2,026.89	325.50	2,352.40
6. Transmission System	456.89	195.81	652.70
7. EGAT Administration	0.00	187.00	187.00
8. Engineering Service	133.10	53.90	187.00
TOTAL ECONOMIC COST	3,893.20	2,276.36	6,169.56

Economic Cost of Development Plan (CASE-2.1st Stage)

(Million Baht)

Description	Lam Ta Khong Project		
	F. C.	L. C.	Total
1. Preliminary Works	0.00	154.00	154.00
2. Environmental Mitigation	0.00	143.00	143.00
3. Civil Works	1,478.82	1,623.36	3,102.18
4. Hydraulic Equipment	475.09	341.55	816.64
5. Electro-mechanical Equipment	2,099.76	334.80	2,434.57
6. Transmission System	134.82	57.78	192.60
7. EGAT Administration	0.00	209.00	209.00
8. Engineering Service	148.50	60.50	209.00
TOTAL ECONOMIC COST	4,337.00	2,923.99	7,260.99

Economic Cost of Development Plan (CASE-2, 2nd Stage)

(Million Baht)

Description	Lam Ta Khong Project		
	F. C.	L. C.	Total
1. Preliminary Works	0.00	31.24	31.24
2. Environmental Mitigation	0.00	99.00	99.00
3. Civil Works	255.81	383.60	639.41
4. Hydraulic Equipment	420.53	198.88	619.41
5. Electro-mechanical Equipment	1,954.22	317.59	2,271.83
6. Transmission System	456.89	195.81	652.70
7. EGAT Administration	0.00	143.00	143.00
8. Engineering Service	100.10	42.90	143.00
TOTAL ECONOMIC COST	3,187.55	1,412.03	4,599.58

Economic Cost of Development Plan (CASE-3, 1st Stage)

(Million Baht)

Description	Lam Ta Khong Project		
	F. C.	L. C.	Total
1. Preliminary Works	0.00	174.68	174.68
2. Environmental Mitigation	0.00	165.00	165.00
3. Civil Works	1,652.90	1,868.48	3,521.39
4. Hydraulic Equipment	895.62	599.50	1,495.12
5. Electro-mechanical Equipment	2,098.33	334.20	2,432.54
6. Transmission System	134.82	57.78	192.60
7. EGAT Administration	0.00	242.00	242.00
8. Engineering Service	171.60	70.40	242.00
TOTAL ECONOMIC COST	4,953.28	3,512.05	8,465.32

Economic Cost of Development Plan (CASE-3, 2nd Stage)

(Million Baht)

Description	Lam Ta Khong Project		
	F.C.	L.C.	Total
1. Preliminary Works	0.00	0.00	0.00
2. Environmental Mitigation	0.00	66.00	66.00
3. Civil Works	4.73	32.56	37.29
4. Hydraulic Equipment	0.00	0.00	0.00
5. Electro-mechanical Equipment	1,732.87	279.90	2,012.78
6. Transmission System	456.89	195.81	652.70
7. EGAT Administration	0.00	99.00	99.00
8. Engineering Service	69.30	29.70	99.00
TOTAL ECONOMIC COST	2,263.80	702.97	2,966.77

Economic Cost of Development Plan (CASE-4)

(Million Baht)

Description	Lam Ta Khong Project		
	F. C.	L. C.	Total
1. Preliminary Works	0.00	171.38	171.38
2. Environmental Mitigation	0.00	220.00	220.00
3. Civil Works	1,657.37	1,900.25	3,557.62
4. Hydraulic Equipment	895.62	599.50	1,495.12
5. Electro-mechanical Equipment	3,811.56	611.62	4,423.16
6. Transmission System	524.30	224.70	749.00
7. EGAT Administration	0.00	319.00	319.00
8. Engineering Service	225.50	93.50	319.00
TOTAL ECONOMIC COST	7,114.34	4,139.94	11,254.29

Economic Cost of Development Plan (ALTERNATIVE-1, 1st Stage)

(Million Baht)

Description	Lam Ta Khong Project		
	F. C.	L. C.	Total
1. Preliminary Works	0.00	141.69	141.69
2. Environmental Mitigation	0.00	137.50	137.50
3. Civil Works	1,357.97	1,475.83	2,833.80
4. Hydraulic Equipment	484.11	349.27	833.38
5. Electro-mechanical Equipment	2,099.76	334.80	2,434.57
6. Transmission System	134.82	57.78	192.60
7. EGAT Administration	0.00	199.42	199.42
8. Engineering Service	141.79	57.62	199.42
TOTAL ECONOMIC COST	4,218.46	2,753.91	6,972.37

Economic Cost of Development Plan (ALTERNATIVE-1,2nd Stage)

(Million Baht)

Description	Lam Ta Khong Project		
	F. C.	L. C.	Total
1. Preliminary Works	0.00	49.53	49.53
2. Environmental Mitigation	0.00	104.50	104.50
3. Civil Works	423.16	567.46	990.62
4. Hydraulic Equipment	421.78	283.91	705.69
5. Electro-mechanical Equipment	1,954.22	317.59	2,271.83
6. Transmission System	456.89	195.81	652.70
7. EGAT Administration	0.00	145.71	145.71
8. Engineering Service	104.19	41.51	145.71
TOTAL ECONOMIC COST	3,360.25	1,706.02	5,066.28

Economic Cost of Development Plan (ALTERNATIVE-2)

(Million Baht)

Description	Lam Ta Khong Project		
	F. C.	L. C.	Total
1. Preliminary Works	0.00	135.64	135.64
2. Environmental Mitigation	0.00	132.00	132.00
3. Civil Works	1,225.94	1,486.98	2,712.92
4. Hydraulic Equipment	400.90	313.18	714.08
5. Electro-mechanical Equipment	2,080.67	323.50	2,404.19
6. Transmission System	119.84	51.36	171.20
7. BGAT Administration	0.00	190.27	190.27
8. Engineering Service	135.39	54.88	190.27
TOTAL ECONOMIC COST	3,962.74	2,687.82	6,650.56

D-3 ANNUAL EXPENDITURE

ANNUAL EXPENDITURE (CASE-1, 1st Stage)
BASE COST (1991 PRICE)

DESCRIPTION	(UNIT: MILLION BAHT)													
	TOTAL		1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	108.60	0.00	50.00	0.00	58.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	120.00	0.00	12.00	0.00	24.00	0.00	36.00	0.00	36.00	0.00	12.00	0.00	0.00
3. CIVIL WORKS	1,009.00	1,162.80	2,171.80	0.00	276.47	153.49	437.91	395.35	222.99	488.38	71.64	125.58	0.00	0.00
4. HYDRAULIC EQUIPMENT	431.90	280.90	712.80	0.00	0.00	0.00	51.83	39.33	215.95	179.78	164.12	61.80	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS	1,882.23	302.67	2,184.90	0.00	169.40	27.24	0.00	0.00	696.43	111.99	847.00	136.20	169.40	27.24
-MAIN TRANSFORMER	115.35	12.75	128.10	0.00	0.00	0.00	0.00	0.00	11.54	1.28	103.82	11.48	0.00	0.00
6. TRANSMISSION SYSTEM	126.00	54.00	180.00	0.00	0.00	0.00	0.00	0.00	50.40	21.60	75.60	32.40	0.00	0.00
7. EGAT ADMINISTRATION	0.00	170.00	170.00	0.00	0.00	21.28	0.00	28.81	0.00	61.09	0.00	49.25	0.00	7.71
8. ENGINEERING SERVICE	30.00	10.00	40.00	24.00	6.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-D/D AND TENDER PREPARATION	91.00	39.00	130.00	0.00	13.65	5.85	27.30	11.70	22.75	9.75	22.75	9.75	4.55	1.95
-CONSTRUCTION SUPERVISION	0.00	304.50	304.50	0.00	0.00	19.31	0.00	5.91	0.00	116.34	0.00	143.63	0.00	19.31
9. IMPORT DUTIES & TAXES	3,685.48	2,565.22	6,250.70	24.00	485.52	311.77	517.03	517.10	1,220.05	1,028.20	1,284.93	582.09	173.95	56.22
SUM OF BASE COST														

ANNUAL EXPENDITURE (CASE-1, 1st Stage)
PHYSICAL CONTINGENCY

DESCRIPTION	(UNIT: MILLION BAHT)													
	TOTAL		1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	10.86	0.00	5.00	0.00	5.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	12.00	0.00	1.20	0.00	2.40	0.00	3.60	0.00	3.60	0.00	1.20	0.00	0.00
3. CIVIL WORKS	100.90	116.28	217.18	0.00	27.65	15.35	43.79	39.54	22.30	48.84	7.16	12.56	0.00	0.00
4. HYDRAULIC EQUIPMENT	43.19	28.09	71.28	0.00	0.00	0.00	5.18	3.93	21.60	17.98	16.41	6.18	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS	131.76	21.19	152.94	0.00	11.86	1.91	0.00	0.00	48.75	7.84	59.29	9.53	11.86	1.91
-MAIN TRANSFORMER	8.07	0.89	8.97	0.00	0.00	0.00	0.00	0.00	0.81	0.09	7.27	0.80	0.00	0.00
6. TRANSMISSION SYSTEM	8.82	3.78	12.60	0.00	0.00	0.00	0.00	0.00	3.53	1.51	5.29	2.27	0.00	0.00
7. EGAT ADMINISTRATION	0.00	17.00	17.00	0.00	0.00	1.95	0.00	2.88	0.00	5.31	0.00	3.84	0.00	2.84
8. ENGINEERING SERVICE	3.00	1.00	4.00	2.40	0.60	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-D/D AND TENDER PREPARATION	9.10	3.90	13.00	0.00	1.37	0.59	2.73	1.17	2.28	0.98	2.28	0.98	0.46	0.20
-CONSTRUCTION SUPERVISION	0.00	22.79	22.79	0.00	0.00	1.35	0.00	0.59	0.00	8.88	0.00	10.62	0.00	1.35
9. IMPORT DUTIES & TAXES	304.84	237.78	542.62	2.40	41.47	29.60	51.70	51.71	99.25	85.02	97.70	47.97	12.31	6.29
SUM OF PHYSICAL CONTINGENCY														

ANNUAL EXPENDITURE (CASE-1. 1st Stage)
 (UNIT: MILLION BAHT)

DESCRIPTION	TOTAL		1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
	SUM		F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	126.95	0.00	57.20	0.00	69.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	149.24	0.00	13.73	0.00	28.56	0.00	44.55	0.00	46.33	0.00	16.06	0.00	0.00
3. CIVIL WORKS	1268.77	1468.59	0.00	0.00	331.48	182.68	548.17	489.25	291.40	628.54	97.72	188.12	0.00	0.00
4. HYDRAULIC EQUIPMENT	570.94	362.77	0.00	0.00	0.00	0.00	64.88	48.67	282.20	231.37	223.86	82.73	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP.	2441.37	385.97	0.00	0.00	197.57	31.54	0.00	0.00	885.27	140.20	1123.80	177.86	234.73	36.87
-TURBINE, GENERATOR & OTHERS	152.40	16.54	0.00	0.00	0.00	0.00	0.00	0.00	14.66	1.60	137.74	14.94	0.00	0.00
-MAIN TRANSFORMER	164.37	69.23	0.00	0.00	0.00	0.00	0.00	0.00	64.07	27.04	100.31	42.19	0.00	0.00
6. TRANSMISSION SYSTEM	0.00	218.55	0.00	2.13	0.00	25.13	0.00	35.66	0.00	77.68	0.00	64.61	0.00	13.35
7. EGAT ADMINISTRATION	34.76	11.53	27.56	9.15	7.19	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8. ENGINEERING SERVICE	117.78	49.76	0.00	0.00	16.37	6.96	34.17	14.48	29.73	12.55	31.03	13.05	6.48	2.71
-D/O AND TENDER PREPARATION	0.00	390.04	0.00	0.00	0.00	22.36	0.00	7.31	0.00	146.51	0.00	187.72	0.00	26.14
-CONSTRUCTION SUPERVISION	4750.40	3249.16	27.56	82.21	552.62	369.36	647.22	639.91	1567.33	1311.82	1714.46	766.78	241.21	79.07
9. IMPORT DUTIES & TAXES	0.00	1516.74	0.00	38.78	0.00	70.98	0.00	141.17	0.00	271.66	0.00	447.24	0.00	546.91
TOTAL (W/O IDC)	4750.40	4765.90	27.56	120.99	552.62	440.34	647.22	781.08	1567.33	1583.48	1714.46	1214.02	241.21	625.98
INDC														
TOTAL PROJECT COST														

ANNUAL EXPENDITURE (CASE-1, 2nd Stage)
BASE COST (1991 PRICE)

DESCRIPTION	TOTAL		1st year		2nd year		3rd year		4th year		5th year		6th year		
	F.C	L.C	SUM	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
				0.00	87.90	87.90	0.00	37.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1. PRELIMINARY WORKS	0.00	120.00	120.00	0.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	767.99	951.40	1,719.39	0.00	125.58	333.31	323.48	169.73	399.59	54.53	102.75	0.00	0.00	0.00	0.00
3. CIVIL WORKS	392.30	217.20	609.50	0.00	0.00	47.08	30.41	196.15	139.01	149.07	47.78	0.00	0.00	0.00	0.00
4. HYDRAULIC EQUIPMENT	1,778.94	291.46	2,070.40	0.00	0.00	0.00	0.00	658.21	107.84	800.52	131.18	160.10	26.23	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP.	115.35	12.75	128.10	0.00	0.00	0.00	0.00	11.54	1.28	103.82	11.48	0.00	0.00	0.00	0.00
-TURBINE GENERATOR & OTHERS	427.00	183.00	610.00	0.00	0.00	0.00	0.00	170.80	73.20	256.20	109.80	0.00	0.00	0.00	0.00
-MAIN TRANSFORMER	0.00	170.00	170.00	0.00	17.53	0.00	23.11	0.00	58.90	0.00	53.37	0.00	15.23	0.00	0.00
6. TRANSMISSION SYSTEM	30.00	10.00	40.00	24.00	8.00	6.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7. ECAT ADMINISTRATION	91.00	39.00	130.00	0.00	5.85	27.30	11.70	22.75	9.75	22.75	9.75	4.55	1.95	0.00	0.00
8. ENGINEERING SERVICE	0.00	354.01	354.01	0.00	18.25	0.00	5.37	0.00	136.05	0.00	176.09	0.00	18.25	0.00	0.00
-D/D AND TENDER PREPARATION	3,602.58	2,436.72	6,039.30	24.00	71.86	390.18	257.35	407.68	1,229.17	961.61	1,386.89	654.18	164.65	61.66	0.00
-CONSTRUCTION SUPERVISION															
9. IMPORT DUTIES & TAXES															
SUM OF BASE COST															

ANNUAL EXPENDITURE (CASE-1, 2nd Stage)
PHYSICAL CONTINGENCY

DESCRIPTION	TOTAL		1st year		2nd year		3rd year		4th year		5th year		6th year		
	F.C	L.C	SUM	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
				0.00	8.79	8.79	0.00	5.00	0.00	3.79	0.00	0.00	0.00	0.00	0.00
1. PRELIMINARY WORKS	0.00	12.00	12.00	0.00	1.20	0.00	2.40	0.00	3.60	0.00	3.60	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	76.80	95.14	171.94	0.00	0.00	21.04	12.56	33.33	32.35	16.97	39.96	5.45	10.28	0.00	0.00
3. CIVIL WORKS	39.23	21.72	60.95	0.00	0.00	0.00	0.00	4.71	3.04	19.62	13.90	14.91	4.78	0.00	0.00
4. HYDRAULIC EQUIPMENT	124.53	20.40	144.93	0.00	0.00	11.21	1.84	0.00	0.00	46.07	7.55	56.04	9.18	11.21	1.84
5. ELECTRO-MECHANICAL EQUIP.	8.07	0.89	8.97	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.09	7.27	0.80	0.00	0.00
-TURBINE GENERATOR & OTHERS	28.88	12.81	42.79	0.00	0.00	0.00	0.00	0.00	0.00	11.96	5.12	17.93	7.69	0.00	0.00
-MAIN TRANSFORMER	0.00	17.00	17.00	0.00	0.19	0.00	1.59	0.00	2.31	0.00	4.97	0.00	4.07	0.00	3.88
6. TRANSMISSION SYSTEM	3.00	1.00	4.00	2.40	0.80	0.60	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7. ECAT ADMINISTRATION	9.10	3.90	13.00	0.00	0.00	1.37	0.59	2.73	1.17	2.28	0.98	2.28	0.98	0.46	0.20
8. ENGINEERING SERVICE	0.00	26.12	26.12	0.00	0.00	0.00	1.28	0.00	0.54	0.00	10.19	0.00	12.84	0.00	1.28
-D/D AND TENDER PREPARATION	290.62	219.78	510.40	2.40	7.19	34.22	24.23	40.77	43.01	97.70	86.36	103.87	51.80	11.66	7.19
-CONSTRUCTION SUPERVISION															
9. IMPORT DUTIES & TAXES															
SUM OF PHYSICAL CONTINGENCY															

ANNUAL EXPENDITURE (CASE-1,2nd Stage)
PRICE CONTINGENCY

DESCRIPTION	TOTAL		1st year		2nd year		3rd year		4th year		5th year		6th year	
	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.
	SUM													
1. PRELIMINARY WORKS	0.00	5.62	0.00	2.20	0.00	3.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	17.24	0.00	0.53	0.00	2.16	0.00	0.00	0.00	0.00	6.73	0.00	2.86	0.00
3. CIVIL WORKS	120.92	155.06	0.00	0.00	20.83	11.33	50.60	44.48	35.10	74.72	14.40	24.53	0.00	0.00
4. HYDRAULIC EQUIPMENT	87.07	41.58	0.00	0.00	0.00	0.00	7.15	4.18	40.56	25.99	38.36	11.41	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP.	403.93	59.81	0.00	0.00	15.42	2.30	0.00	0.00	132.41	19.62	205.57	30.45	50.54	7.44
-TURBINE, GENERATOR & OTHERS	28.98	2.90	0.00	0.00	0.00	0.00	0.00	0.00	2.32	0.23	26.66	2.66	0.00	0.00
-MAIN TRANSFORMER	100.15	38.81	0.00	0.00	0.00	0.00	0.00	0.00	34.36	13.32	65.79	25.49	0.00	0.00
6. TRANSMISSION SYSTEM	0.00	33.21	0.00	0.08	0.00	1.57	0.00	3.18	0.00	10.86	0.00	12.46	0.00	5.07
7. EGAT ADMINISTRATION	1.76	0.53	1.16	0.35	0.59	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8. ENGINEERING SERVICE	17.68	6.86	0.00	0.00	1.35	0.53	4.14	1.61	4.70	1.82	6.01	2.33	1.48	0.57
-D/O AND TENDER PREPARATION	0.00	73.37	0.00	0.00	0.00	1.60	0.00	0.74	0.00	24.86	0.00	41.00	0.00	5.18
-CONSTRUCTION SUPERVISION	760.49	434.99	1.16	3.16	38.20	23.08	61.89	59.13	248.45	178.15	357.78	153.20	52.01	18.25
9. IMPORT DUTIES & TAXES														
SUM OF PRICE CONTINGENCY														

ANNUAL EXPENDITURE (CASE-1,2nd Stage)
BASE COST INCLUDE PHYSICAL CONTINGENCIES

DESCRIPTION	TOTAL		1st year		2nd year		3rd year		4th year		5th year		6th year	
	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.
	SUM													
1. PRELIMINARY WORKS	0.00	96.69	0.00	55.00	0.00	41.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	132.00	0.00	13.20	0.00	26.40	0.00	39.60	0.00	39.60	0.00	13.20	0.00	0.00
3. CIVIL WORKS	844.79	1046.54	0.00	0.00	231.47	138.14	366.64	355.82	186.70	439.55	59.98	113.03	0.00	0.00
4. HYDRAULIC EQUIPMENT	431.53	238.92	0.00	0.00	0.00	0.00	51.78	33.45	215.77	152.91	163.98	52.56	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP.	1903.47	311.86	0.00	0.00	171.31	28.07	0.00	0.00	704.28	115.39	866.56	140.34	171.31	28.07
-TURBINE, GENERATOR & OTHERS	123.42	13.64	0.00	0.00	0.00	0.00	0.00	0.00	12.34	1.36	111.08	12.28	0.00	0.00
-MAIN TRANSFORMER	456.89	185.81	0.00	0.00	0.00	0.00	0.00	0.00	182.76	78.32	274.13	117.49	0.00	0.00
6. TRANSMISSION SYSTEM	0.00	187.00	0.00	2.05	0.00	19.11	0.00	25.42	0.00	63.87	0.00	57.44	0.00	19.11
7. EGAT ADMINISTRATION	33.00	11.00	26.40	8.80	6.60	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8. ENGINEERING SERVICE	100.10	42.90	0.00	0.00	15.02	6.44	30.03	12.87	25.03	10.73	25.03	10.73	5.01	2.15
-D/O AND TENDER PREPARATION	0.00	380.14	0.00	0.00	0.00	19.53	0.00	5.90	0.00	146.24	0.00	188.93	0.00	19.53
-CONSTRUCTION SUPERVISION	3893.20	2656.50	26.40	79.05	424.40	281.58	448.45	473.06	1326.87	1047.97	1490.76	705.99	176.32	68.86
9. IMPORT DUTIES & TAXES	3883.20	2276.36	26.40	79.05	424.40	282.05	448.45	467.16	1326.87	901.73	1490.76	517.05	176.32	49.33
T O T A L														
ECONOMIC COST														

ANNUAL EXPENDITURE (CASE-1, 2nd Stage)
 (UNIT: MILLION BART)
 TOTAL PROJECT COST (BASE COST INCLUDE PHYSICAL & PRICE CONTINGENCIES)

DESCRIPTION	TOTAL		1st year		2nd year		3rd year		4th year		5th year		6th year	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	102.31	0.00	57.20	0.00	45.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	149.24	0.00	13.73	0.00	28.58	0.00	44.55	0.00	46.33	0.00	16.06	0.00	0.00
3. CIVIL WORKS	965.71	1201.60	0.00	0.00	252.30	149.47	417.23	400.30	221.80	514.27	74.38	137.55	0.00	0.00
4. HYDRAULIC EQUIPMENT	518.60	280.50	0.00	0.00	0.00	0.00	58.93	37.63	255.33	178.90	203.34	63.97	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP.	2307.40	371.67	0.00	0.00	186.73	30.37	0.00	0.00	836.69	135.01	1062.13	170.79	221.85	35.51
-TURBINE-GENERATOR & OTHERS	152.40	16.54	0.00	0.00	0.00	0.00	0.00	0.00	14.66	1.60	137.74	14.94	0.00	0.00
-MAIN TRANSFORMER	557.04	234.62	0.00	0.00	0.00	0.00	0.00	0.00	217.11	91.64	339.93	142.98	0.00	0.00
6. TRANSMISSION SYSTEM	0.00	220.21	0.00	2.13	0.00	20.88	0.00	28.60	0.00	74.73	0.00	68.90	0.00	24.18
7. EGAT ADMINISTRATION	34.76	11.53	27.56	9.15	7.19	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8. ENGINEERING SERVICE	117.78	49.76	0.00	0.00	16.37	6.96	34.17	14.48	29.73	12.55	31.03	13.05	6.48	2.71
-D/D AND TENDER PREPARATION	0.00	453.51	0.00	0.00	0.00	21.13	0.00	6.64	0.00	171.10	0.00	228.93	0.00	24.70
-CONSTRUCTION SUPERVISION	4653.69	3091.49	27.56	82.21	482.80	304.67	510.34	532.20	1576.32	1226.12	1848.54	859.18	228.33	87.10
9. IMPORT DUTIES & TAXES	0.00	1422.94	0.00	38.01	0.00	64.84	0.00	122.94	0.00	242.94	0.00	423.41	0.00	530.80
TOTAL PROJECT COST	4653.69	4514.43	27.56	120.22	462.60	369.51	510.34	655.14	1576.32	1469.06	1848.54	1282.59	228.33	617.90

ANNUAL EXPENDITURE (CASE-2, 1st Stage)
BASE COST (1991 PRICE)

DESCRIPTION	(UNIT: MILLION BAHT)											
	1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	140.00	0.00	50.00	0.00	90.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	130.00	0.00	13.00	0.00	26.00	0.00	39.00	0.00	13.00	0.00	0.00
3. CIVIL WORKS	1.344.38	1,475.78	2,820.16	0.00	0.00	368.36	194.80	583.46	297.11	619.83	95.45	159.38
4. HYDRAULIC EQUIPMENT	431.90	310.50	742.40	0.00	0.00	0.00	0.00	51.83	215.95	198.72	164.12	68.31
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS	1.847.05	300.15	2,147.20	0.00	0.00	166.23	27.01	0.00	683.41	111.09	831.17	135.07
-MAIN TRANSFORMER	115.85	12.75	128.10	0.00	0.00	0.00	0.00	0.00	11.54	1.28	103.82	11.48
6. TRANSMISSION SYSTEM	126.00	54.00	180.00	0.00	0.00	0.00	0.00	0.00	50.40	21.50	75.60	32.40
7. EGAT ADMINISTRATION	0.00	190.00	190.00	0.00	1.89	0.00	26.17	0.00	0.00	67.50	0.00	50.69
8. ENGINEERING SERVICE -D/D AND TENDER PREPARATION	30.00	10.00	40.00	0.00	8.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00
-CONSTRUCTION SUPERVISION	105.00	45.00	150.00	0.00	0.00	15.75	6.75	31.50	26.25	11.25	26.25	11.25
9. IMPORT DUTIES & TAXES	0.00	300.49	300.49	0.00	0.00	0.00	18.95	0.00	0.00	114.85	0.00	141.82
SUM OF BASE COST	3,999.68	2,968.67	6,968.35	24.00	72.89	556.34	391.69	666.79	1,284.65	1,185.08	1,296.41	623.41

ANNUAL EXPENDITURE (CASE-2, 1st Stage)
PHYSICAL CONTINGENCY

DESCRIPTION	(UNIT: MILLION BAHT)											
	1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	14.00	0.00	5.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	13.00	0.00	1.30	0.00	2.60	0.00	3.90	0.00	1.30	0.00	0.00
3. CIVIL WORKS	134.44	147.58	282.02	0.00	0.00	36.84	19.48	58.35	29.71	61.98	9.55	15.94
4. HYDRAULIC EQUIPMENT	43.19	31.05	74.24	0.00	0.00	0.00	0.00	5.18	21.60	19.87	16.41	6.83
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS	129.29	21.01	150.30	0.00	0.00	11.64	1.89	0.00	47.84	7.77	58.18	9.45
-MAIN TRANSFORMER	8.07	0.89	8.97	0.00	0.00	0.00	0.00	0.00	0.81	0.09	7.27	0.80
6. TRANSMISSION SYSTEM	8.82	3.78	12.60	0.00	0.00	0.00	0.00	0.00	3.53	1.51	5.29	2.27
7. EGAT ADMINISTRATION	0.00	19.00	19.00	0.00	0.19	0.00	2.44	0.00	0.00	5.96	0.00	4.00
8. ENGINEERING SERVICE -D/D AND TENDER PREPARATION	3.00	1.00	4.00	0.00	0.80	0.60	0.20	0.00	0.00	0.00	0.00	0.00
-CONSTRUCTION SUPERVISION	10.50	4.50	15.00	0.00	0.00	1.58	0.68	3.15	2.63	1.13	2.63	1.13
9. IMPORT DUTIES & TAXES	0.00	22.51	22.51	0.00	0.00	0.00	1.33	0.00	0.00	8.78	0.00	10.49
SUM OF PHYSICAL CONTINGENCY	337.32	278.32	615.64	2.40	7.29	50.65	37.62	66.68	106.10	110.99	99.32	52.21

ANNUAL EXPENDITURE (CASE-2,1st Stage)

(UNIT: MILLION BAHT)

PRICE CONTINGENCY

DESCRIPTION	TOTAL		1992		1993		1994		1995		1996		1997		
	F.C	L.C	SUM	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
				0.00	10.32	10.32	0.00	2.20	0.00	8.12	0.00	0.00	0.00	0.00	0.00
1. PRELIMINARY WORKS	0.00	10.32	10.32	0.00	2.20	0.00	8.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	18.68	18.68	0.00	0.57	0.00	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3. CIVIL WORKS	211.68	240.52	452.19	0.00	0.00	36.47	17.57	88.57	61.44	115.91	25.20	38.05	0.00	0.00	0.00
4. HYDRAULIC EQUIPMENT	95.85	58.44	155.30	0.00	0.00	0.00	0.00	7.87	44.66	37.16	43.33	16.31	0.00	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP.	419.40	61.59	480.99	0.00	0.00	16.01	2.37	0.00	137.47	20.20	213.45	31.36	52.47	7.66	0.00
-TURBINE, GENERATOR & OTHERS	28.98	2.90	31.88	0.00	0.00	0.00	0.00	0.00	2.32	0.23	26.66	2.66	0.00	0.00	0.00
-MAIN TRANSFORMER	29.55	11.45	41.00	0.00	0.00	0.00	0.00	0.00	10.14	3.93	19.41	7.52	0.00	0.00	0.00
6. TRANSMISSION SYSTEM	0.00	34.44	34.44	0.00	0.08	0.00	2.35	0.00	0.00	12.49	0.00	11.87	0.00	0.00	2.63
7. EGAT ADMINISTRATION	1.76	0.53	2.29	1.16	0.35	0.59	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8. ENGINEERING SERVICE	20.40	7.91	28.31	0.00	0.00	1.56	0.61	4.78	5.43	2.10	6.93	2.69	1.70	0.66	0.00
-D/D AND TENDER PREPARATION	0.00	61.92	61.92	0.00	0.00	0.00	1.66	0.00	0.00	21.02	0.00	33.05	0.00	0.00	5.37
-CONSTRUCTION SUPERVISION	807.62	509.70	1317.32	1.16	3.21	54.63	35.20	101.22	261.46	220.33	334.98	146.61	54.18	16.32	0.00
9. IMPORT DUTIES & TAXES															
SUM OF PRICE CONTINGENCY															

ANNUAL EXPENDITURE (CASE-2,1st Stage)

(UNIT: MILLION BAHT)

BASE COST INCLUDE PHYSICAL CONTINGENCIES

DESCRIPTION	TOTAL		1992		1993		1994		1995		1996		1997		
	F.C	L.C	SUM	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
				0.00	154.00	154.00	0.00	55.00	0.00	99.00	0.00	0.00	0.00	0.00	0.00
1. PRELIMINARY WORKS	0.00	154.00	154.00	0.00	55.00	0.00	99.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	143.00	143.00	0.00	14.30	0.00	28.60	0.00	0.00	42.90	0.00	14.30	0.00	0.00	0.00
3. CIVIL WORKS	1478.82	1623.36	3102.18	0.00	0.00	405.20	214.28	641.81	326.82	681.81	105.00	175.32	0.00	0.00	0.00
4. HYDRAULIC EQUIPMENT	475.09	341.55	816.64	0.00	0.00	0.00	0.00	57.01	237.55	218.59	180.53	75.14	0.00	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP.	1976.34	321.16	2297.50	0.00	0.00	177.87	28.90	0.00	731.25	118.83	889.35	144.52	177.87	28.90	0.00
-TURBINE, GENERATOR & OTHERS	123.42	13.64	137.07	0.00	0.00	0.00	0.00	0.00	12.94	1.36	111.08	12.28	0.00	0.00	0.00
-MAIN TRANSFORMER	134.82	57.78	192.60	0.00	0.00	0.00	0.00	0.00	53.93	23.11	80.89	34.67	0.00	0.00	0.00
6. TRANSMISSION SYSTEM	0.00	209.00	209.00	0.00	2.08	0.00	28.62	0.00	0.00	73.45	0.00	54.69	0.00	0.00	9.91
7. EGAT ADMINISTRATION	33.00	11.00	44.00	26.40	8.80	6.60	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8. ENGINEERING SERVICE	115.50	49.50	165.00	0.00	0.00	17.33	7.43	34.65	28.88	12.38	28.88	12.38	5.78	2.48	0.00
-D/D AND TENDER PREPARATION	0.00	323.01	323.01	0.00	0.00	0.00	20.28	0.00	0.00	123.64	0.00	152.31	0.00	0.00	20.28
-CONSTRUCTION SUPERVISION	4337.00	3247.00	7583.99	26.40	80.18	606.99	429.31	733.47	1350.76	1296.08	1395.73	675.61	183.65	61.57	0.00
9. IMPORT DUTIES & TAXES															
TOTAL	4337.00	2923.99	7260.99	26.40	80.18	606.99	409.03	733.47	1390.76	1172.44	1395.73	523.30	183.65	41.29	0.00
ECONOMIC COST															

ANNUAL EXPENDITURE (CASE-2, 1st Stage)
 TOTAL PROJECT COST (BASE COST INCLUDE PHYSICAL & PRICE CONTINGENCIES)
 (UNIT: MILLION BART)

DESCRIPTION	TOTAL		1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	164.32	0.00	57.20	0.00	107.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	161.68	0.00	14.87	0.00	30.95	0.00	48.26	0.00	50.19	0.00	17.40	0.00	0.00
3. CIVIL WORKS	1690.50	1863.87	3554.37	0.00	441.66	231.85	730.38	620.93	388.26	797.72	130.20	213.37	0.00	0.00
4. HYDRAULIC EQUIPMENT	570.94	400.99	971.94	0.00	0.00	0.00	64.88	53.79	282.20	255.75	223.86	91.45	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP.														
-TURBINE, GENERATOR & OTHERS	2395.74	382.75	2778.50	0.00	193.88	31.27	0.00	0.00	888.72	189.63	1102.80	175.88	230.34	36.56
-MAIN TRANSFORMER	152.40	16.54	168.94	0.00	0.00	0.00	0.00	0.00	14.66	1.60	137.74	14.94	0.00	0.00
6. TRANSMISSION SYSTEM	104.37	69.23	233.60	0.00	0.00	0.00	0.00	0.00	64.07	27.04	100.31	42.19	0.00	0.00
7. LEGAT ADMINISTRATION	0.00	243.44	243.44	0.00	0.00	30.96	0.00	45.27	0.00	85.94	0.00	66.56	0.00	12.54
8. ENGINEERING SERVICE														
-D/D AND TENDER PREPARATION	34.76	11.53	46.29	9.15	7.19	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-CONSTRUCTION SUPERVISION	135.90	57.41	193.31	0.00	18.88	8.03	39.43	16.71	34.30	14.48	35.81	15.06	7.48	3.13
9. IMPORT DUTIES & TAXES	0.00	384.92	384.92	0.00	0.00	21.94	0.00	7.31	0.00	144.66	0.00	185.37	0.00	25.65
TOTAL (W/O IDC)	5144.62	3756.70	8901.31	83.39	661.62	464.51	834.69	792.28	1652.22	1516.41	1730.71	822.22	237.82	77.89
IDC	0.00	1718.35	1718.35	41.77	0.00	79.45	0.00	167.60	0.00	318.17	0.00	504.82	0.00	606.54
TOTAL PROJECT COST	5144.62	5475.05	10619.66	125.16	661.62	543.96	834.69	959.88	1652.22	1834.58	1730.71	1327.04	237.82	684.43

ANNUAL EXPENDITURE (CASE-2, 2nd Stage)
BASE COST (1991 PRICE)

DESCRIPTION	(UNIT: MILLION BAHT)													
	TOTAL		1st year		2nd year		3rd year		4th year		5th year		6th year	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	28.40	0.00	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	90.00	0.00	9.00	0.00	18.00	0.00	27.00	0.00	27.00	0.00	0.00	0.00	0.00
3. CIVIL WORKS	232.55	348.73	0.00	0.00	63.72	46.03	100.93	118.57	51.39	146.47	16.51	37.66	0.00	0.00
4. HYDRAULIC EQUIPMENT	382.30	180.80	0.00	0.00	0.00	0.00	45.88	25.31	191.15	115.71	145.27	39.78	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS	1,711.03	284.07	0.00	0.00	153.99	25.57	0.00	0.00	633.08	105.11	769.96	127.83	153.99	25.57
-MAIN TRANSFORMER	115.35	12.75	0.00	0.00	0.00	0.00	0.00	0.00	11.54	1.28	103.82	11.48	0.00	0.00
6. TRANSMISSION SYSTEM	427.00	183.00	0.00	0.00	0.00	0.00	0.00	0.00	170.80	73.20	256.20	109.80	0.00	0.00
7. EGAT ADMINISTRATION	0.00	130.00	0.00	1.12	0.00	9.22	0.00	9.53	0.00	45.80	0.00	48.82	0.00	15.51
8. ENGINEERING SERVICE	14.00	6.00	14.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-D/D AND TENDER PREPARATION	77.00	33.00	0.00	0.00	11.55	4.95	23.10	9.90	19.25	8.25	19.25	8.25	3.85	1.65
-CONSTRUCTION SUPERVISION	0.00	345.13	0.00	0.00	0.00	17.56	0.00	5.23	0.00	132.61	0.00	172.18	0.00	17.56
9. IMPORT DUTIES & TAXES	2,959.23	1,641.88	14.00	44.52	229.26	121.32	169.90	195.54	1,077.21	655.43	1,311.01	564.79	157.84	60.29
SUM OF BASE COST														

ANNUAL EXPENDITURE (CASE-2, 2nd Stage)
PHYSICAL CONTINGENCY

DESCRIPTION	(UNIT: MILLION BAHT)													
	TOTAL		1st year		2nd year		3rd year		4th year		5th year		6th year	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	2.84	0.00	2.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	9.00	0.00	0.90	0.00	1.80	0.00	2.70	0.00	2.70	0.00	0.90	0.00	0.00
3. CIVIL WORKS	23.26	34.87	0.00	0.00	6.37	4.60	10.09	11.86	5.14	14.65	1.65	3.77	0.00	0.00
4. HYDRAULIC EQUIPMENT	38.23	18.08	0.00	0.00	0.00	0.00	4.59	2.53	19.12	11.57	14.53	3.98	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS	119.77	19.88	0.00	0.00	10.78	1.79	0.00	0.00	44.32	7.36	53.90	8.95	10.78	1.79
-MAIN TRANSFORMER	8.07	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.09	7.27	0.80	0.00	0.00
6. TRANSMISSION SYSTEM	29.89	12.81	0.00	0.00	0.00	0.00	0.00	0.00	11.96	5.12	17.93	7.69	0.00	0.00
7. EGAT ADMINISTRATION	0.00	13.00	0.00	0.11	0.00	0.75	0.00	0.95	0.00	3.68	0.00	3.64	0.00	3.85
8. ENGINEERING SERVICE	1.40	0.60	1.40	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-D/D AND TENDER PREPARATION	7.70	3.30	0.00	0.00	1.16	0.50	2.31	0.99	1.93	0.83	1.93	0.83	0.39	0.17
-CONSTRUCTION SUPERVISION	0.00	25.47	0.00	0.00	0.00	1.23	0.00	0.52	0.00	9.94	0.00	12.55	0.00	1.23
9. IMPORT DUTIES & TAXES	228.32	140.75	1.40	4.45	18.31	10.68	16.99	19.55	83.26	55.93	97.20	43.10	11.16	7.03
SUM OF PHYSICAL CONTINGENCY														

ANNUAL EXPENDITURE (CASE-2, 2nd Stage)

PRICE CONTINGENCY

(UNIT: MILLION BAHT)

DESCRIPTION	TOTAL		1st year		2nd year		3rd year		4th year		5th year		6th year	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	1.25	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	12.93	0.00	12.93	0.00	0.00	0.00	3.71	0.00	0.00	0.00	0.00	2.15	0.00
3. CIVIL WORKS	36.62	56.83	0.00	93.45	6.31	4.15	15.32	16.30	10.63	27.39	4.36	8.99	0.00	0.00
4. HYDRAULIC EQUIPMENT	84.85	34.61	0.00	119.46	0.00	0.00	6.96	3.48	39.53	21.64	38.35	9.49	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS	388.51	58.29	0.00	446.81	14.83	2.24	0.00	0.00	127.35	19.12	197.73	29.88	48.61	7.25
-MAIN TRANSFORMER	28.98	2.90	0.00	31.88	0.00	0.00	0.00	0.00	2.32	0.23	26.66	2.66	0.00	0.00
6. TRANSMISSION SYSTEM	100.15	38.81	0.00	138.96	0.00	0.00	0.00	0.00	34.36	13.32	65.79	25.49	0.00	0.00
7. EGAT ADMINISTRATION	0.00	27.10	0.00	27.10	0.00	0.82	0.00	1.31	0.00	8.41	0.00	11.38	0.00	5.13
8. ENGINEERING SERVICE -D/D AND TENDER PREPARATION -CONSTRUCTION SUPERVISION	0.68	0.26	0.68	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9. IMPORT DUTIES & TAXES	14.96	5.80	0.00	20.76	1.14	0.45	3.51	1.36	3.98	1.54	5.08	1.97	1.25	0.48
	0.00	71.56	0.00	71.56	0.00	1.54	0.00	0.72	0.00	24.23	0.00	40.09	0.00	4.98
SUM OF PRICE CONTINGENCY	654.75	310.35	0.88	965.10	22.28	10.82	25.79	26.89	218.17	120.93	337.87	131.91	49.86	17.84

ANNUAL EXPENDITURE (CASE-2, 2nd Stage)

BASE COST INCLUDE PHYSICAL CONTINGENCIES

(UNIT: MILLION BAHT)

DESCRIPTION	TOTAL		1st year		2nd year		3rd year		4th year		5th year		6th year	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	31.24	0.00	31.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	98.00	0.00	98.00	0.00	19.80	0.00	28.70	0.00	29.70	0.00	9.90	0.00	0.00
3. CIVIL WORKS	255.81	383.60	0.00	639.41	70.09	50.64	111.02	130.43	56.53	161.11	18.16	41.43	0.00	0.00
4. HYDRAULIC EQUIPMENT	420.53	198.88	0.00	619.41	0.00	0.00	50.46	27.84	210.27	127.28	159.80	43.75	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS	1830.80	303.95	0.00	2134.76	164.77	27.36	0.00	0.00	677.40	112.46	823.86	136.78	164.77	27.36
-MAIN TRANSFORMER	123.42	13.64	0.00	137.07	0.00	0.00	0.00	0.00	12.34	1.36	111.08	12.28	0.00	0.00
6. TRANSMISSION SYSTEM	456.89	195.81	0.00	652.70	0.00	0.00	0.00	0.00	182.76	78.32	274.13	117.49	0.00	0.00
7. EGAT ADMINISTRATION	0.00	143.00	0.00	143.00	0.00	9.98	0.00	10.48	0.00	49.49	0.00	52.46	0.00	19.36
8. ENGINEERING SERVICE -D/D AND TENDER PREPARATION -CONSTRUCTION SUPERVISION	15.40	6.60	15.40	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9. IMPORT DUTIES & TAXES	84.70	36.30	0.00	121.00	12.71	5.45	25.41	10.89	21.18	9.08	21.18	9.08	4.24	1.82
	0.00	370.60	0.00	370.60	0.00	18.78	0.00	5.75	0.00	142.55	0.00	184.73	0.00	18.78
TOTAL	3187.55	1782.63	15.40	4970.18	247.57	132.00	186.89	215.09	1160.47	711.36	1408.22	607.89	169.01	67.31
ECONOMIC COST	3187.55	1412.03	15.40	4599.58	247.57	113.22	186.89	209.34	1160.47	568.81	1408.22	423.16	169.01	48.53

ANNUAL EXPENDITURE (CASE-2.2nd Stage)
 TOTAL PROJECT COST (BASE COST INCLUDE PHYSICAL & PRICE CONTINGENCIES)
 (UNIT: MILLION BART)

DESCRIPTION	TOTAL		1st year		2nd year		3rd year		4th year		5th year		6th year	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	32.49	0.00	32.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	111.93	0.00	10.30	0.00	21.42	0.00	33.41	0.00	34.75	0.00	12.05	0.00	0.00
3. CIVIL WORKS	292.42	440.44	0.00	0.00	76.40	54.79	126.34	146.73	67.16	188.50	22.52	50.42	0.00	0.00
4. HYDRAULIC EQUIPMENT	505.38	233.49	0.00	0.00	0.00	0.00	57.43	31.32	249.79	148.92	198.15	53.25	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP.														
-TURBINE, GENERATOR & OTHERS	2219.32	362.25	0.00	0.00	179.60	29.60	0.00	0.00	804.75	131.58	1021.59	166.46	213.38	34.61
-MAIN TRANSFORMER	152.40	16.54	0.00	0.00	0.00	0.00	0.00	0.00	14.66	1.60	137.74	14.94	0.00	0.00
6. TRANSMISSION SYSTEM	557.04	234.62	0.00	0.00	0.00	0.00	0.00	0.00	217.11	91.54	339.93	142.98	0.00	0.00
7. EGAT ADMINISTRATION	0.00	170.10	0.00	1.28	0.00	10.80	0.00	11.79	0.00	57.90	0.00	63.84	0.00	24.49
8. ENGINEERING SERVICE														
-D/D AND TENDER PREPARATION	16.08	6.86	16.08	6.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-CONSTRUCTION SUPERVISION	99.66	42.10	0.00	0.00	13.85	5.89	28.92	12.25	25.16	10.62	26.26	11.04	5.48	2.30
9. IMPORT DUTIES & TAXES	0.00	442.15	0.00	0.00	0.00	20.32	0.00	6.47	0.00	166.78	0.00	224.81	0.00	23.76
TOTAL (W/O IDC)	3842.30	2092.98	16.08	50.93	269.85	142.82	212.68	241.98	1378.64	832.29	1746.19	739.80	218.86	85.15
IDC	0.00	1029.77	0.00	30.74	0.00	45.48	0.00	73.77	0.00	156.62	0.00	311.76	0.00	411.40
TOTAL PROJECT COST	3842.30	3122.75	16.08	81.67	269.85	188.30	212.68	315.75	1378.64	988.91	1746.19	1051.56	218.86	496.55

ANNUAL EXPENDITURE (CASE-3, 1st Stage)
 BASE COST (1991 PRICE)
 (UNIT: MILLION BAHT)

DESCRIPTION	1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	158.80	0.00	108.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	150.00	0.00	30.00	0.00	45.00	0.00	15.00	0.00	15.00	0.00	0.00
3. CIVIL WORKS	1,502.64	1,698.62	3,201.26	577.53	652.15	713.42	332.08	106.69	183.45	0.00	0.00	0.00
4. HYDRAULIC EQUIPMENT	814.20	545.00	1,359.20	0.00	97.70	348.80	407.10	309.40	119.93	0.00	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE GENERATOR & OTHERS	1,845.71	299.59	2,145.30	166.11	26.96	110.85	682.91	830.57	134.82	166.11	26.96	0.00
-MAIN TRANSFORMER	115.35	12.75	128.10	0.00	0.00	11.54	11.54	103.82	11.48	0.00	0.00	0.00
6. TRANSMISSION SYSTEM	126.00	54.00	180.00	0.00	0.00	21.60	50.40	75.60	32.40	0.00	0.00	0.00
7. EGAT ADMINISTRATION	0.00	220.00	220.00	0.00	29.63	81.75	0.00	57.69	0.00	0.00	6.11	0.00
8. ENGINEERING SERVICE	30.00	10.00	40.00	6.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-D/D AND TENDER PREPARATION	126.00	54.00	180.00	18.90	8.10	37.80	31.50	13.50	6.30	2.70	0.00	0.00
-CONSTRUCTION SUPERVISION	0.00	343.92	343.92	0.00	18.94	0.00	186.59	0.00	158.32	0.00	0.00	18.94
9. IMPORT DUTIES & TAXES	4,559.90	3,546.68	8,106.58	602.74	448.05	787.65	1,515.53	1,472.79	1,457.57	172.41	54.71	0.00
SUM OF BASE COST												

ANNUAL EXPENDITURE (CASE-3, 1st Stage)
 PHYSICAL CONTINGENCY
 (UNIT: MILLION BAHT)

DESCRIPTION	1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	15.88	0.00	10.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	15.00	0.00	3.00	0.00	4.50	0.00	1.50	0.00	1.50	0.00	0.00
3. CIVIL WORKS	150.26	169.86	320.13	22.42	65.21	71.34	33.21	10.67	18.35	0.00	0.00	0.00
4. HYDRAULIC EQUIPMENT	81.42	54.50	135.92	0.00	9.77	34.88	40.71	30.94	11.99	0.00	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE GENERATOR & OTHERS	129.20	20.97	150.17	11.63	1.89	7.76	47.80	58.14	9.44	11.63	1.89	0.00
-MAIN TRANSFORMER	8.07	0.89	8.97	0.00	0.00	0.09	0.81	7.27	0.80	0.00	0.00	0.00
6. TRANSMISSION SYSTEM	8.82	3.78	12.60	0.00	0.00	1.51	3.53	5.29	2.27	0.00	0.00	0.00
7. EGAT ADMINISTRATION	0.00	22.00	22.00	0.00	2.73	1.38	0.00	4.70	0.00	0.00	2.65	0.00
8. ENGINEERING SERVICE	3.00	1.00	4.00	0.60	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-D/D AND TENDER PREPARATION	12.60	5.40	18.00	1.89	0.81	3.73	3.15	1.35	0.63	0.27	0.00	0.00
-CONSTRUCTION SUPERVISION	0.00	26.86	26.86	0.00	1.11	10.95	0.00	12.14	0.00	0.00	0.00	1.33
9. IMPORT DUTIES & TAXES	393.38	336.14	729.52	55.29	43.25	73.76	129.21	115.46	62.53	12.26	6.13	0.00
SUM OF PHYSICAL CONTINGENCY												

ANNUAL EXPENDITURE (CASE-3, 1st Stage)

PRICE CONTINGENCY

(UNIT: MILLION BAHT)

DESCRIPTION	TOTAL		1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	12.01	0.00	2.20	0.00	9.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	21.55	0.00	0.66	0.00	2.71	0.00	6.19	0.00	8.42	0.00	3.58	0.00	0.00
3. CIVIL WORKS	236.60	276.83	0.00	0.00	40.76	20.22	98.00	79.41	68.67	133.41	28.17	43.79	0.00	0.00
4. HYDRAULIC EQUIPMENT	180.70	104.34	0.00	0.00	0.00	0.00	14.83	10.49	84.19	65.23	81.88	28.62	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP.	419.10	61.48	0.00	0.00	16.00	2.37	0.00	0.00	137.37	20.16	213.29	31.30	52.43	7.65
-TURBINE GENERATOR & OTHERS	28.98	2.90	0.00	0.00	0.00	0.00	0.00	0.00	2.32	0.23	26.66	2.66	0.00	0.00
-MAIN TRANSFORMER	29.55	11.45	0.00	0.00	0.00	0.00	0.00	0.00	10.14	3.93	19.41	7.52	0.00	0.00
6. TRANSMISSION SYSTEM	0.00	39.68	0.00	0.08	0.00	2.60	0.00	5.98	0.00	15.15	0.00	13.54	0.00	2.32
7. BOAT ADMINISTRATION	1.76	0.53	1.16	0.35	0.59	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8. ENGINEERING SERVICE	24.48	9.49	0.00	0.00	1.87	0.73	5.74	2.23	6.51	2.52	8.32	3.22	2.04	0.79
-D/O AND TENDER PREPARATION	0.00	70.64	0.00	0.00	0.00	1.66	0.00	1.53	0.00	25.08	0.00	36.98	0.00	5.37
-CONSTRUCTION SUPERVISION	921.16	610.90	1532.06	3.30	59.22	40.29	119.57	105.82	309.21	274.13	377.53	171.23	54.48	16.12
9. IMPORT DUTIES & TAXES														
SUM OF PRICE CONTINGENCY														

ANNUAL EXPENDITURE (CASE-3, 1st Stage)

BASE COST INCLUDE PHYSICAL CONTINGENCIES

(UNIT: MILLION BAHT)

DESCRIPTION	TOTAL		1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	174.68	0.00	55.00	0.00	119.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	165.00	0.00	16.50	0.00	33.00	0.00	49.50	0.00	49.50	0.00	16.50	0.00	0.00
3. CIVIL WORKS	1652.90	1868.48	0.00	0.00	452.90	246.64	717.36	635.28	365.29	784.78	117.36	201.80	0.00	0.00
4. HYDRAULIC EQUIPMENT	895.62	599.50	1495.12	0.00	0.00	0.00	107.47	83.93	447.81	383.68	340.84	131.89	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP.	1974.91	320.56	2295.47	0.00	177.74	28.85	0.00	0.00	730.72	118.61	888.71	144.25	177.74	28.85
-TURBINE GENERATOR & OTHERS	123.42	13.64	137.07	0.00	0.00	0.00	0.00	0.00	12.34	1.36	111.08	12.28	0.00	0.00
-MAIN TRANSFORMER	134.82	57.78	192.60	0.00	0.00	0.00	0.00	0.00	53.93	23.11	89.89	34.67	0.00	0.00
6. TRANSMISSION SYSTEM	0.00	242.00	242.00	2.15	0.00	31.76	0.00	47.81	0.00	89.13	0.00	62.39	0.00	8.76
7. BOAT ADMINISTRATION	33.00	11.00	44.00	8.80	6.60	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8. ENGINEERING SERVICE	138.60	59.40	198.00	0.00	20.79	8.91	41.58	17.82	34.65	14.85	34.65	14.85	6.93	2.97
-D/O AND TENDER PREPARATION	0.00	370.78	370.78	0.00	0.00	20.26	0.00	12.25	0.00	147.55	0.00	170.46	0.00	20.26
-CONSTRUCTION SUPERVISION	4953.28	3882.83	8836.11	26.40	658.03	491.31	866.41	846.59	1644.74	1612.56	1573.03	789.09	184.67	60.84
9. IMPORT DUTIES & TAXES														
T O T A L	4953.28	3512.05	8465.32	26.40	658.03	471.04	866.41	834.34	1644.74	1465.01	1573.03	618.63	184.67	40.58
ECONOMIC COST														

ANNUAL EXPENDITURE (CASE-3, 1st Stage)
 TOTAL PROJECT COST (BASE COST INCLUDE PHYSICAL & PRICE CONTINGENCIES)

(UNIT: MILLION BAHT)

DESCRIPTION	TOTAL		1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	186.69	0.00	57.20	0.00	129.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	186.55	0.00	17.16	0.00	35.71	0.00	55.69	0.00	57.92	0.00	20.08	0.00	0.00
3. CIVIL WORKS	1889.50	2145.32	4034.82	0.00	493.66	266.86	816.36	714.69	433.97	918.17	145.52	245.59	0.00	0.00
4. HYDRAULIC EQUIPMENT	1076.32	703.84	1780.16	0.00	0.00	0.00	122.31	94.42	532.00	448.91	422.02	160.51	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP.	2394.01	382.04	2776.04	0.00	193.74	31.22	0.00	0.00	868.09	138.77	1102.00	175.56	230.18	36.50
-TURBINE, GENERATOR & OTHERS	152.40	16.54	168.94	0.00	0.00	0.00	0.00	0.00	14.66	1.60	137.74	14.94	0.00	0.00
-MAIN TRANSFORMER	164.37	69.23	233.60	0.00	0.00	0.00	0.00	0.00	64.07	27.04	100.31	42.19	0.00	0.00
6. TRANSMISSION SYSTEM	0.00	281.68	281.68	0.00	0.00	34.37	0.00	53.78	0.00	104.29	0.00	75.93	0.00	11.08
7. EGAT ADMINISTRATION	34.76	11.53	46.29	27.56	7.19	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8. ENGINEERING SERVICE	163.08	68.89	231.96	0.00	22.66	9.64	47.32	20.05	41.16	17.37	42.97	18.07	8.97	3.76
-D/D AND TENDER PREPARATION	0.00	441.42	441.42	0.00	0.00	21.92	0.00	13.78	0.00	172.63	0.00	207.45	0.00	25.63
-CONSTRUCTION SUPERVISION	5874.44	4493.73	10368.17	27.56	717.25	531.59	985.98	952.42	1953.95	1886.69	1950.55	960.32	239.15	76.96
9. IMPORT DUTIES & TAXES	0.00	1994.04	1994.04	0.00	0.00	88.70	0.00	190.24	0.00	371.26	0.00	591.10	0.00	705.43
TOTAL PROJECT COST	5874.44	6487.77	12362.21	27.56	717.25	620.29	985.98	1142.66	1953.95	2257.95	1950.55	1551.42	239.15	782.39
TOTAL (W/O IDC)														
INDICATOR														

ANNUAL EXPENDITURE (CASE-3, 2nd Stage)
BASE COST (1991 PRICE) (UNIT: MILLION BAHT)

DESCRIPTION	TOTAL		1st year		2nd year		3rd year		4th year		5th year	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
	SUM											
1. PRELIMINARY WORKS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	60.00	0.00	6.00	0.00	36.00	0.00	18.00	0.00	0.00	0.00	0.00
3. CIVIL WORKS	4.30	28.60	0.00	0.00	0.00	0.00	0.00	0.00	4.30	29.60	0.00	0.00
4. HYDRAULIC EQUIPMENT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS	1504.16	248.84	0.00	0.00	150.42	24.88	451.25	74.65	752.08	124.42	150.42	24.88
-MAIN TRANSFORMER	115.35	12.75	0.00	0.00	0.00	0.00	11.54	1.28	103.81	11.47	0.00	0.00
6. TRANSMISSION SYSTEM	427.00	183.00	0.00	0.00	0.00	0.00	170.80	73.20	256.20	109.80	0.00	0.00
7. EGAT ADMINISTRATION	0.00	90.00	0.00	0.18	0.00	6.34	0.00	24.02	0.00	41.75	0.00	17.71
8. ENGINEERING SERVICE	7.00	3.00	7.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-D/D AND TENDER PREPARATION	56.00	24.00	0.00	0.00	8.40	3.60	16.80	7.20	16.80	7.20	14.00	6.00
-CONSTRUCTION SUPERVISION	0.00	277.97	0.00	0.00	0.00	17.15	0.00	90.09	0.00	153.58	0.00	17.15
9. IMPORT DUTIES & TAXES												
SUM OF BASE COST	2,113.81	929.16	7.00	9.18	158.82	87.97	650.39	288.45	1,133.19	477.82	164.42	65.74

ANNUAL EXPENDITURE (CASE-3, 2nd Stage)
PHYSICAL CONTINGENCY (UNIT: MILLION BAHT)

DESCRIPTION	TOTAL		1st year		2nd year		3rd year		4th year		5th year	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
	SUM											
1. PRELIMINARY WORKS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	6.00	0.00	0.60	0.00	3.60	0.00	1.80	0.00	0.00	0.00	0.00
3. CIVIL WORKS	0.43	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.43	2.96	0.00	0.00
4. HYDRAULIC EQUIPMENT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS	105.29	17.42	0.00	0.00	10.53	1.74	31.59	5.23	52.65	8.71	10.53	1.74
-MAIN TRANSFORMER	8.07	0.89	0.00	0.00	0.00	0.00	0.81	0.09	7.27	0.80	0.00	0.00
6. TRANSMISSION SYSTEM	29.89	12.81	0.00	0.00	0.00	0.00	11.96	5.12	17.93	7.69	0.00	0.00
7. EGAT ADMINISTRATION	0.00	9.00	0.00	0.02	0.00	0.48	0.00	1.70	0.00	2.95	0.00	3.86
8. ENGINEERING SERVICE	0.70	0.30	0.70	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-D/D AND TENDER PREPARATION	5.60	2.40	0.00	0.00	0.84	0.36	1.68	0.72	1.68	0.72	1.40	0.60
-CONSTRUCTION SUPERVISION	0.00	19.46	0.00	0.00	0.00	1.20	0.00	6.31	0.00	10.75	0.00	1.20
9. IMPORT DUTIES & TAXES												
SUM OF PHYSICAL CONTINGENCY	149.99	71.24	0.70	0.92	11.37	7.38	46.03	20.96	79.96	34.58	11.93	7.40

ANNUAL EXPENDITURE (CASE-3,2nd Stage)

DESCRIPTION	PRICE CONTINGENCY (UNIT: MILLION BAHT)											
	TOTAL		1st year		2nd year		3rd year		4th year		5th year	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	5.99	0.00	0.26	0.00	3.25	0.00	2.48	0.00	0.00	0.00	0.00
3. CIVIL WORKS	0.89	5.54	0.00	0.00	0.00	0.00	0.00	0.00	0.89	5.54	0.00	0.00
4. HYDRAULIC EQUIPMENT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS	204.40	30.59	294.99	0.00	0.00	14.49	2.18	0.00	0.00	151.29	22.63	38.63
-MAIN TRANSFORMER	20.88	2.09	22.97	0.00	0.00	0.00	0.00	0.00	0.00	20.88	2.09	0.00
6. TRANSMISSION SYSTEM	76.76	29.76	106.52	0.00	0.00	0.00	0.00	25.22	9.79	51.54	19.97	0.00
7. EGAT ADMINISTRATION	0.00	16.06	16.06	0.00	0.01	0.00	0.56	0.00	3.21	0.00	7.60	4.68
8. ENGINEERING SERVICE -D/D AND TENDER PREPARATION	0.34	0.13	0.47	0.34	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-CONSTRUCTION SUPERVISION	10.55	4.09	14.64	0.00	0.00	0.83	0.32	2.55	0.99	3.47	1.35	3.70
9. IMPORT DUTIES & TAXES	0.00	45.47	45.47	0.00	0.00	0.00	1.50	0.00	12.03	0.00	27.94	3.98
SUM OF PRICE CONTINGENCY	313.82	139.72	453.54	0.34	0.40	15.32	7.82	27.77	28.52	228.07	87.11	42.32

ANNUAL EXPENDITURE (CASE-3,2nd Stage)

DESCRIPTION	BASE COST INCLUDE PHYSICAL CONTINGENCIES (UNIT: MILLION BAHT)											
	TOTAL		1st year		2nd year		3rd year		4th year		5th year	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	66.00	66.00	6.60	39.60	0.00	19.80	0.00	0.00	0.00	0.00	0.00
3. CIVIL WORKS	4.73	32.56	37.29	0.00	0.00	0.00	0.00	0.00	4.73	32.56	0.00	0.00
4. HYDRAULIC EQUIPMENT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS	1609.45	266.26	1875.71	0.00	0.00	160.95	26.63	482.84	79.88	804.73	133.13	160.95
-MAIN TRANSFORMER	123.42	13.64	137.07	0.00	0.00	0.00	0.00	12.35	1.37	111.08	12.27	0.00
6. TRANSMISSION SYSTEM	456.89	195.81	652.70	0.00	0.00	0.00	0.00	182.76	78.32	274.13	117.49	0.00
7. EGAT ADMINISTRATION	0.00	99.00	99.00	0.00	0.20	0.00	6.82	0.00	25.72	0.00	44.70	21.56
8. ENGINEERING SERVICE -D/D AND TENDER PREPARATION	7.70	3.30	11.00	7.70	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-CONSTRUCTION SUPERVISION	61.60	26.40	88.00	0.00	0.00	9.24	3.96	18.48	7.92	18.48	7.92	15.40
9. IMPORT DUTIES & TAXES	0.00	297.42	297.42	0.00	0.00	0.00	18.35	0.00	96.40	0.00	164.33	18.35
T O T A L	2263.80	1000.40	3264.19	7.70	10.10	170.19	95.35	696.42	309.41	1213.15	512.40	176.35
ECONOMIC COST	2263.80	702.97	2966.77	7.70	10.10	170.19	77.00	696.42	213.01	1213.15	348.07	176.35

ANNUAL EXPENDITURE (CASE-3, 2nd Stage)
 TOTAL PROJECT COST (BASE COST INCLUDE PHYSICAL & PRICE CONTINGENCIES) (UNIT: MILLION BAHT)

DESCRIPTION	TOTAL		1st year		2nd year		3rd year		4th year		5th year	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	71.99	0.00	6.85	0.00	42.85	0.00	22.28	0.00	0.00	0.00	0.00
3. CIVIL WORKS	5.62	38.10	0.00	0.00	0.00	0.00	0.00	0.00	5.62	38.10	0.00	0.00
4. HYDRAULIC EQUIPMENT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP.												
-TURBINE, GENERATOR & OTHERS	1813.85	216.97	0.00	0.00	175.43	28.81	482.84	0.00	956.01	155.76	199.57	32.46
-MAIN TRANSFORMER	131.96	14.36	0.00	0.00	0.00	0.00	0.00	0.00	131.96	14.36	0.00	0.00
6. TRANSMISSION SYSTEM	533.65	225.57	0.00	0.00	0.00	0.00	207.98	88.11	325.67	137.46	0.00	0.00
7. EGAT ADMINISTRATION	0.00	115.06	0.00	0.21	0.00	7.37	0.00	28.93	0.00	52.30	0.00	26.24
8. ENGINEERING SERVICE												
-D/D AND TENDER PREPARATION	8.04	3.43	8.04	3.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-CONSTRUCTION SUPERVISION	72.15	30.49	0.00	0.00	10.07	4.28	21.03	8.91	21.95	9.27	19.10	8.03
9. IMPORT DUTIES & TAXES	0.00	342.90	0.00	0.00	0.00	19.85	0.00	108.45	0.00	192.26	0.00	22.33
TOTAL (W/O IDC)	2577.62	1140.12	8.04	10.50	185.50	103.17	724.19	337.96	1441.22	599.51	218.67	89.01
IDC	0.00	553.42	0.00	19.88	0.00	29.35	0.00	72.44	0.00	174.03	0.00	257.72
TOTAL PROJECT COST	2577.62	1693.54	8.04	30.38	185.50	132.52	724.19	410.37	1441.22	773.54	218.67	346.73

ANNUAL EXPENDITURE (CASE-4)
 BASE COST (1991 PRICE)
 (UNIT: MILLION BART)

DESCRIPTION	TOTAL		1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
	SUM		SUM		SUM		SUM		SUM		SUM		SUM	
1. PRELIMINARY WORKS	0.00	155.80	0.00	50.00	0.00	105.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	200.00	0.00	20.00	0.00	40.00	0.00	0.00	0.00	60.00	0.00	20.00	0.00	0.00
3. CIVIL WORKS	1,506.70	1,727.50	3,234.20	0.00	412.84	228.03	658.91	587.35	332.98	725.55	106.98	186.57	0.00	0.00
4. HYDRAULIC EQUIPMENT	814.20	545.00	1,359.20	0.00	0.00	0.00	97.70	76.30	407.10	348.80	309.40	119.90	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS	3,381.50	546.10	3,877.60	0.00	289.84	49.15	0.00	0.00	1,282.66	202.06	1,499.18	245.75	299.84	49.15
-MAIN TRANSFORMER	230.70	25.50	256.20	0.00	0.00	0.00	0.00	0.00	23.07	2.55	207.63	22.95	0.00	0.00
6. TRANSMISSION SYSTEM	490.00	210.00	700.00	0.00	0.00	0.00	0.00	0.00	196.00	84.00	294.00	126.00	0.00	0.00
7. EGAT ADMINISTRATION	0.00	290.00	290.00	0.00	0.00	34.07	0.00	44.26	0.00	108.44	0.00	94.15	0.00	6.98
8. ENGINEERING SERVICE	30.00	10.00	40.00	24.00	6.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-D/D AND TENDER PREPARATION	175.00	75.00	250.00	0.00	26.25	11.25	52.50	22.50	43.75	18.75	43.75	18.75	8.75	3.75
-CONSTRUCTION SUPERVISION	0.00	606.02	606.02	0.00	0.00	34.18	0.00	11.14	0.00	232.41	0.00	294.12	0.00	34.18
9. IMPORT DUTIES & TAXES	6,578.10	4,390.92	10,969.02	24.00	80.10	504.48	804.11	801.55	2,235.56	1,782.56	2,460.93	1,128.18	308.59	94.06
SUM OF BASE COST														

ANNUAL EXPENDITURE (CASE-4)
 PHYSICAL CONTINGENCY
 (UNIT: MILLION BART)

DESCRIPTION	TOTAL		1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
	SUM		SUM		SUM		SUM		SUM		SUM		SUM	
1. PRELIMINARY WORKS	0.00	15.58	15.58	0.00	0.00	10.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	20.00	20.00	2.00	0.00	4.00	0.00	0.00	0.00	6.00	0.00	2.00	0.00	0.00
3. CIVIL WORKS	150.67	172.75	323.42	0.00	41.28	22.80	65.39	58.74	33.30	72.55	10.70	18.66	0.00	0.00
4. HYDRAULIC EQUIPMENT	81.42	54.50	135.92	0.00	0.00	0.00	9.77	7.63	40.71	34.88	30.94	11.99	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS	233.21	38.23	271.43	0.00	20.99	3.44	0.00	0.00	86.29	14.14	104.94	17.20	20.99	3.44
-MAIN TRANSFORMER	16.15	1.79	17.93	0.00	0.00	0.00	0.00	0.00	1.61	0.18	14.53	1.61	0.00	0.00
6. TRANSMISSION SYSTEM	34.30	14.70	49.00	0.00	0.00	0.00	0.00	0.00	13.72	5.88	20.58	8.82	0.00	0.00
7. EGAT ADMINISTRATION	0.00	29.00	29.00	0.00	0.00	3.08	0.00	4.43	0.00	9.28	0.00	7.26	0.00	4.73
8. ENGINEERING SERVICE	3.00	1.00	4.00	2.40	0.60	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-D/D AND TENDER PREPARATION	17.50	7.50	25.00	0.00	2.63	1.13	5.25	2.25	4.38	1.88	4.38	1.88	0.88	0.38
-CONSTRUCTION SUPERVISION	0.00	45.21	45.21	0.00	0.00	2.39	0.00	1.11	0.00	17.65	0.00	21.65	0.00	2.39
9. IMPORT DUTIES & TAXES	536.24	400.25	936.49	2.40	65.50	47.63	80.41	80.15	180.00	162.45	186.07	91.06	21.86	10.94
SUM OF PHYSICAL CONTINGENCY														

ANNUAL EXPENDITURE (CASE-4)
PRICE CONTINGENCY

(UNIT: MILLION BAHT)

DESCRIPTION	TOTAL		1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
	SUM		SUM		SUM		SUM		SUM		SUM		SUM	
1. PRELIMINARY WORKS	0.00	11.74	0.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	28.73	0.00	0.88	0.00	3.51	0.00	8.25	0.00	11.22	0.00	4.77	0.00	0.00
3. CIVIL WORKS	237.24	518.78	0.00	0.00	40.87	20.57	99.26	80.76	68.86	135.68	28.24	44.53	0.00	0.00
4. HYDRAULIC EQUIPMENT	180.70	104.34	0.00	0.00	0.00	0.00	14.83	10.49	84.19	65.23	81.68	28.62	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS -MAIN TRANSFORMER	756.47	112.06	0.00	0.00	28.87	4.31	0.00	0.00	247.96	36.75	384.99	57.06	94.64	13.94
6. TRANSMISSION SYSTEM	57.96	63.75	0.00	0.00	0.00	0.00	0.00	0.00	4.64	0.46	53.32	5.33	0.00	0.00
7. EGAT ADMINISTRATION	114.93	44.54	0.00	0.00	0.00	0.00	0.00	0.00	39.43	15.28	75.50	29.26	0.00	0.00
8. ENGINEERING SERVICE	0.00	54.35	0.00	0.09	0.00	3.05	0.00	6.09	0.00	20.01	0.00	22.01	0.00	3.10
-D/D AND TENDER PREPARATION -CONSTRUCTION SUPERVISION	1.76	0.53	1.16	0.35	0.59	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9. IMPORT DUTIES & TAXES	34.01	13.18	0.00	0.00	2.60	1.01	7.97	3.09	9.05	3.51	11.55	4.48	2.84	1.09
	0.00	125.25	0.00	0.00	0.00	3.03	0.00	1.53	0.00	42.51	0.00	68.52	0.00	9.69
SUM OF PRICE CONTINGENCY	1383.05	782.06	2165.11	3.52	72.94	45.27	122.06	110.21	454.13	330.65	635.28	264.57	97.48	27.83

ANNUAL EXPENDITURE (CASE-4)
BASE COST INCLUDE PHYSICAL CONTINGENCIES

(UNIT: MILLION BAHT)

DESCRIPTION	TOTAL		1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
	SUM		SUM		SUM		SUM		SUM		SUM		SUM	
1. PRELIMINARY WORKS	0.00	171.38	0.00	55.00	0.00	116.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	220.00	0.00	22.00	0.00	44.00	0.00	66.00	0.00	66.00	0.00	22.00	0.00	0.00
3. CIVIL WORKS	1657.37	1900.25	0.00	0.00	454.12	250.83	719.30	646.09	366.28	798.11	117.67	205.23	0.00	0.00
4. HYDRAULIC EQUIPMENT	895.62	599.50	0.00	0.00	0.00	0.00	107.47	83.93	447.81	383.68	340.34	131.89	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS -MAIN TRANSFORMER	3564.71	584.33	0.00	0.00	320.82	52.59	0.00	0.00	1318.94	216.20	1604.12	262.95	320.82	52.59
6. TRANSMISSION SYSTEM	246.85	27.29	0.00	0.00	0.00	0.00	0.00	0.00	24.68	2.73	222.16	24.56	0.00	0.00
7. EGAT ADMINISTRATION	524.30	224.70	0.00	0.00	0.00	0.00	0.00	0.00	209.72	89.88	314.58	134.82	0.00	0.00
8. ENGINEERING SERVICE	0.00	319.00	0.00	2.31	0.00	37.16	0.00	48.68	0.00	117.72	0.00	101.41	0.00	11.71
-D/D AND TENDER PREPARATION -CONSTRUCTION SUPERVISION	33.00	11.00	26.40	8.80	6.60	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9. IMPORT DUTIES & TAXES	192.50	82.50	0.00	0.00	28.88	12.38	57.75	24.75	48.13	20.63	48.13	20.63	9.63	4.13
	0.00	651.23	0.00	0.00	0.00	36.57	0.00	12.25	0.00	250.07	0.00	315.76	0.00	36.57
T O T A L	7114.34	4781.17	11905.52	88.11	810.42	552.11	884.52	881.70	2415.56	1945.01	2647.00	1219.24	330.45	105.00
ECONOMIC COST	7114.34	4138.94	11254.29	88.11	810.42	515.54	884.52	869.45	2415.56	1694.94	2647.00	903.47	330.45	68.43

ANNUAL EXPENDITURE (CASE-4)
 TOTAL PROJECT COST (BASE COST INCLUDE PHYSICAL & PRICE CONTINGENCIES)
 (UNIT: MILLION BAHT)

DESCRIPTION	1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	183.12	0.00	125.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	248.73	0.00	47.61	0.00	74.25	0.00	77.22	0.00	26.77	0.00	0.00
3. CIVIL WORKS	1894.61	2181.79	494.99	271.40	818.56	726.85	435.14	933.78	145.91	249.76	0.00	0.00
4. HYDRAULIC EQUIPMENT	1076.32	703.84	0.00	0.00	122.31	94.42	532.00	448.91	422.02	160.51	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE GENERATOR & OTHERS	4321.17	696.39	349.70	56.90	0.00	0.00	1566.90	252.96	1989.11	320.01	415.47	66.53
-MAIN TRANSFORMER	304.81	33.08	0.00	0.00	0.00	0.00	29.33	3.19	275.48	29.89	0.00	0.00
6. TRANSMISSION SYSTEM	639.23	269.24	0.00	0.00	0.00	0.00	249.15	105.16	390.08	164.08	0.00	0.00
7. EGAT ADMINISTRATION	0.00	373.35	0.00	40.21	0.00	54.77	0.00	137.73	0.00	123.42	0.00	14.82
8. ENGINEERING SERVICE -D/D AND TENDER PREPARATION	34.76	11.53	7.19	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-CONSTRUCTION SUPERVISION	226.51	95.68	31.47	13.39	65.72	27.84	57.17	24.13	59.68	25.10	12.46	5.22
9. IMPORT DUTIES & TAXES	0.00	776.48	0.00	39.57	0.00	13.78	0.00	292.58	0.00	384.28	0.00	46.27
TOTAL (W/O IDC)	8497.39	5573.23	14070.63	27.56	91.63	883.36	597.39	2869.88	2275.66	3282.27	1483.81	132.83
IDC	0.00	2603.20	0.00	115.91	0.00	227.66	0.00	451.04	0.00	775.90	0.00	965.54
TOTAL PROJECT COST	8497.39	8176.43	16673.83	27.56	158.78	883.36	713.30	2869.88	2726.70	3282.27	1483.81	1098.37

ANNUAL EXPENDITURE (ALTERNATIVE-1, 1st Stage)

DESCRIPTION	(UNIT: MILLION BAHT)													
	BASE COST (1991 PRICE)						1995						1997	
	TOTAL		1992		1993		1994		1995		1996		F.C.	L.C.
F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	
1. PRELIMINARY WORKS	0.00	128.81	0.00	50.00	0.00	78.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2. ENVIRONMENTAL MITIGATION	0.00	125.00	0.00	12.50	0.00	25.00	0.00	0.00	0.00	0.00	37.50	0.00	12.50	
3. CIVIL WORKS	1234.52	1341.66	2,576.18	0.00	338.26	177.09	535.79	456.16	272.83	563.50	87.64	144.91	0.00	
4. HYDRAULIC EQUIPMENT	440.10	317.52	757.62	0.00	0.00	0.00	52.81	44.46	220.05	203.22	167.24	69.84	0.00	
5. ELECTRO-MECHANICAL EQUIP.														
-TURBINE GENERATOR & OTHERS	1,847.05	300.15	2,147.20	0.00	166.23	27.01	0.00	0.00	683.41	111.05	831.17	135.07	166.24	
-MAIN TRANSFORMER	115.35	12.75	128.10	0.00	0.00	0.00	0.00	0.00	11.54	1.28	103.81	11.47	0.00	
6. TRANSMISSION SYSTEM	126.00	54.00	180.00	0.00	0.00	0.00	0.00	0.00	50.40	21.60	75.60	32.40	0.00	
7. EGAT ADMINISTRATION	0.00	181.29	181.29	0.00	1.88	24.37	0.00	33.80	0.00	65.29	0.00	50.15	0.00	
8. ENGINEERING SERVICE														
-D/D AND TENDER PREPARATION	30.00	10.00	40.00	24.00	6.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-CONSTRUCTION SUPERVISION	98.90	42.39	141.29	0.00	14.84	6.36	29.67	12.72	24.73	10.60	24.73	10.60	4.95	
9. IMPORT DUTIES & TAXES	0.00	301.43	301.43	0.00	0.00	18.95	0.00	6.02	0.00	115.33	0.00	142.18	18.95	
SUM OF BASE COST	3,891.92	2,814.99	6,706.91	24.00	525.33	359.59	618.27	590.66	1,262.96	1,129.37	1,290.19	608.12	171.19	

ANNUAL EXPENDITURE (ALTERNATIVE-1, 1st Stage)

DESCRIPTION	(UNIT: MILLION BAHT)													
	PHYSICAL CONTINGENCY						1995						1997	
	TOTAL		1992		1993		1994		1995		1996		F.C.	L.C.
F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	
1. PRELIMINARY WORKS	0.00	12.88	0.00	5.00	0.00	7.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2. ENVIRONMENTAL MITIGATION	0.00	12.50	0.00	1.25	0.00	2.50	0.00	3.75	0.00	3.75	0.00	1.25	0.00	
3. CIVIL WORKS	123.45	134.17	257.62	0.00	33.83	17.71	53.58	45.62	27.28	56.35	8.76	14.49	0.00	
4. HYDRAULIC EQUIPMENT	44.01	31.75	75.76	0.00	0.00	0.00	5.28	4.45	22.01	20.32	16.72	6.98	0.00	
5. ELECTRO-MECHANICAL EQUIP.														
-TURBINE GENERATOR & OTHERS	129.29	21.01	150.30	0.00	11.64	1.89	0.00	0.00	47.84	7.77	58.18	9.45	11.64	
-MAIN TRANSFORMER	8.07	0.89	8.97	0.00	0.00	0.00	0.00	0.00	0.81	0.09	7.27	0.80	0.00	
6. TRANSMISSION SYSTEM	8.82	3.78	12.60	0.00	0.00	0.00	0.00	0.00	3.53	1.51	5.29	2.27	0.00	
7. EGAT ADMINISTRATION	0.00	18.13	18.13	0.00	0.00	2.26	0.00	3.36	0.00	5.74	0.00	3.94	0.00	
8. ENGINEERING SERVICE														
-D/D AND TENDER PREPARATION	3.00	1.00	4.00	2.40	0.60	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-CONSTRUCTION SUPERVISION	9.89	4.24	14.13	0.00	1.48	0.64	2.97	1.27	2.47	1.06	2.47	1.06	0.49	
9. IMPORT DUTIES & TAXES	0.00	22.61	22.61	0.00	0.00	1.33	0.00	0.60	0.00	8.83	0.00	10.52	1.33	
SUM OF PHYSICAL CONTINGENCY	326.54	262.95	589.49	2.40	47.55	34.41	61.83	59.07	103.94	105.42	98.70	50.78	12.13	

ANNUAL EXPENDITURE (ALTERNATIVE-1, 1st Stage)

PRICE CONTINGENCY

(UNIT: MILLION BAHT)

DESCRIPTION	TOTAL		1992		1993		1994		1995		1996		1997	
	F.C	L.C	SUM	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	
				0.00	9.31	0.00	2.20	0.00	7.11	0.00	0.00	0.00	0.00	0.00
1. PRELIMINARY WORKS	0.00	17.96	17.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2. ENVIRONMENTAL MITIGATION	0.00	17.96	17.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3. CIVIL WORKS	194.38	218.66	413.04	0.00	0.00	33.49	15.97	81.33	62.72	56.42	105.37	23.14	34.59	
4. HYDRAULIC EQUIPMENT	97.67	60.79	158.46	0.00	0.00	0.00	0.00	8.02	6.11	45.51	38.00	44.15	16.67	
5. ELECTRO-MECHANICAL EQUIP.	419.40	61.59	480.99	0.00	0.00	16.01	2.37	0.00	0.00	137.47	20.20	213.44	31.36	
-TURBINE GENERATOR & OTHERS	28.98	2.90	31.88	0.00	0.00	0.00	0.00	0.00	0.00	2.82	0.23	26.66	2.66	
-MAIN TRANSFORMER	28.55	11.45	41.00	0.00	0.00	0.00	0.00	0.00	0.00	10.14	3.93	19.41	7.52	
6. TRANSMISSION SYSTEM	0.00	32.96	32.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.07	0.00	11.74	
7. EGAT ADMINISTRATION	1.76	0.53	2.29	1.16	0.35	0.59	0.18	0.00	0.00	0.00	0.00	0.00	0.00	
8. ENGINEERING SERVICE	19.22	7.45	26.67	0.00	0.00	1.47	0.57	4.50	1.75	5.11	1.98	6.53	2.53	
-D/D AND TENDER PREPARATION	0.00	62.11	62.11	0.00	0.00	0.00	1.66	0.00	0.83	0.00	21.11	0.00	33.14	
-CONSTRUCTION SUPERVISION	790.96	485.70	1276.66	1.16	3.18	51.56	32.31	93.85	81.22	256.98	209.91	333.33	143.20	
9. IMPORT DUTIES & TAXES														
SUM OF PRICE CONTINGENCY														

ANNUAL EXPENDITURE (ALTERNATIVE-1, 1st Stage)

BASE COST INCLUDE PHYSICAL CONTINGENCIES

(UNIT: MILLION BAHT)

DESCRIPTION	TOTAL		1992		1993		1994		1995		1996		1997	
	F.C	L.C	SUM	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	
				0.00 <th>141.69 <td>141.69</td> <td>0.00</td> <td>55.00</td> <td>0.00</td> <td>86.69</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> </th>	141.69 <td>141.69</td> <td>0.00</td> <td>55.00</td> <td>0.00</td> <td>86.69</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	141.69	0.00	55.00	0.00	86.69	0.00	0.00	0.00	0.00
1. PRELIMINARY WORKS	0.00	141.69	141.69	0.00	55.00	0.00	86.69	0.00	0.00	0.00	0.00	0.00	0.00	
2. ENVIRONMENTAL MITIGATION	0.00	137.50	137.50	0.00	13.75	0.00	27.50	0.00	0.00	41.25	0.00	13.75	0.00	
3. CIVIL WORKS	1957.97	1475.83	2833.80	0.00	0.00	372.09	194.80	589.37	501.78	300.11	619.85	96.40	159.40	
4. HYDRAULIC EQUIPMENT	484.11	349.27	833.38	0.00	0.00	0.00	0.00	58.09	48.91	242.06	223.54	183.96	76.82	
5. ELECTRO-MECHANICAL EQUIP.	1976.34	321.16	2297.50	0.00	0.00	177.87	28.90	0.00	0.00	731.25	118.82	889.35	144.52	
-TURBINE GENERATOR & OTHERS	123.42	13.64	137.07	0.00	0.00	0.00	0.00	0.00	0.00	12.95	1.37	111.08	12.27	
-MAIN TRANSFORMER	134.82	57.78	192.60	0.00	0.00	0.00	0.00	0.00	0.00	53.93	23.11	80.89	34.67	
6. TRANSMISSION SYSTEM	0.00	199.42	199.42	0.00	2.08	0.00	26.64	0.00	0.00	0.00	71.03	0.00	54.09	
7. EGAT ADMINISTRATION	33.00	11.00	44.00	26.40	8.80	6.80	2.20	0.00	0.00	0.00	0.00	0.00	0.00	
8. ENGINEERING SERVICE	108.79	46.82	155.42	0.00	0.00	16.32	6.99	32.64	13.99	27.20	11.66	27.20	11.66	
-D/D AND TENDER PREPARATION	0.00	324.03	324.03	0.00	0.00	0.00	20.28	0.00	6.62	0.00	124.15	0.00	152.70	
-CONSTRUCTION SUPERVISION	4218.46	3077.95	7296.41	26.40	79.61	572.87	394.00	680.10	649.72	1366.89	1234.79	1388.89	659.89	
9. IMPORT DUTIES & TAXES														
T O T A L	4218.46	2753.91	6972.37	26.40	79.61	572.87	373.72	680.10	643.10	1366.89	1110.63	1388.89	507.19	
ECONOMIC COST														

DESCRIPTION		ANNUAL EXPENDITURE (ALTERNATIVE-1, 2nd Stage) (UNIT: MILLION BAHT)													
		BASE COST (1991 PRICE)		1st year		2nd year		3rd year		4th year		5th year		6th year	
		F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
TOTAL		L.C	SUM	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS		0.00	45.03	0.00	45.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION		0.00	95.00	0.00	95.00	0.00	19.00	0.00	28.50	0.00	28.50	0.00	9.50	0.00	0.00
3. CIVIL WORKS		384.69	515.87	900.36	0.00	105.41	68.10	166.95	175.39	85.02	216.67	27.31	55.71	0.00	0.00
4. HYDRAULIC EQUIPMENT		383.44	258.10	641.54	0.00	0.00	0.00	46.02	36.14	191.72	165.19	145.70	56.77	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS		1711.03	284.07	1,995.10	0.00	0.00	25.56	0.00	0.00	633.08	105.11	789.97	127.84	153.99	25.56
-MAIN TRANSFORMER		115.35	12.75	128.10	0.00	0.00	0.00	0.00	0.00	11.54	1.28	103.81	11.47	0.00	0.00
6. TRANSMISSION SYSTEM		427.00	183.00	610.00	0.00	0.00	0.00	0.00	0.00	170.80	73.20	256.20	109.80	0.00	0.00
7. BOAT ADMINISTRATION		0.00	132.46	132.46	0.00	1.64	11.16	0.00	13.59	0.00	50.46	0.00	50.22	0.00	5.39
8. ENGINEERING SERVICE -D/D AND TENDER PREPARATION		30.00	10.00	40.00	24.00	8.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-CONSTRUCTION SUPERVISION		64.72	27.74	92.46	0.00	0.00	4.16	19.42	8.32	16.18	6.93	16.18	6.93	3.24	1.39
9. IMPORT DUTIES & TAXES		0.00	345.26	345.26	0.00	0.00	17.55	0.00	5.25	0.00	132.68	0.00	172.23	0.00	17.55
SUM OF BASE COST		3,116.23	1,909.28	5,025.51	24.00	64.17	147.54	232.39	267.19	1,108.34	780.03	1,319.17	600.47	157.23	49.89

DESCRIPTION		ANNUAL EXPENDITURE (ALTERNATIVE-1, 2nd Stage) (UNIT: MILLION BAHT)													
		PHYSICAL CONTINGENCY		1st year		2nd year		3rd year		4th year		5th year		6th year	
		F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
TOTAL		L.C	SUM	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS		0.00	4.50	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION		0.00	9.50	0.00	9.50	0.00	1.90	0.00	2.85	0.00	2.85	0.00	0.95	0.00	0.00
3. CIVIL WORKS		38.47	51.59	90.06	0.00	10.54	6.81	16.70	17.54	8.50	21.67	2.73	5.57	0.00	0.00
4. HYDRAULIC EQUIPMENT		38.34	25.81	64.15	0.00	0.00	0.00	4.60	3.61	19.17	16.52	14.57	5.88	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS		119.77	19.88	139.66	0.00	0.00	1.79	0.00	0.00	44.32	7.36	53.90	8.95	10.78	1.79
-MAIN TRANSFORMER		8.07	0.88	8.95	0.00	0.00	0.00	0.00	0.00	0.81	0.09	7.27	0.80	0.00	0.00
6. TRANSMISSION SYSTEM		28.89	12.81	42.70	0.00	0.00	0.00	0.00	0.00	11.96	5.12	17.93	7.69	0.00	0.00
7. BOAT ADMINISTRATION		0.00	13.25	13.25	0.00	0.16	0.95	0.00	1.96	0.00	4.15	0.00	3.78	0.00	2.84
8. ENGINEERING SERVICE -D/D AND TENDER PREPARATION		3.00	1.00	4.00	2.40	0.80	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-CONSTRUCTION SUPERVISION		6.47	2.77	9.25	0.00	0.00	0.42	1.94	0.83	1.62	0.69	1.62	0.69	0.32	0.14
9. IMPORT DUTIES & TAXES		0.00	25.48	25.48	0.00	0.00	1.23	0.00	0.52	0.00	9.94	0.00	12.55	0.00	1.23
SUM OF PHYSICAL CONTINGENCY		244.02	167.49	411.51	2.40	6.42	13.30	23.24	26.72	86.37	68.39	98.02	46.66	11.10	5.99

ANNUAL EXPENDITURE (ALTERNATIVE-1.2nd Stage)
PRICE CONTINGENCY

DESCRIPTION	(UNIT: MILLION BAHT)													
	TOTAL		1st year		2nd year		3rd year		4th year		5th year		6th year	
	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.
1. PRELIMINARY WORKS	0.00	1.98	0.00	1.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	13.65	0.00	0.42	0.00	0.00	0.00	3.92	0.00	5.33	0.00	2.27	0.00	0.00
3. CIVIL WORKS	60.57	84.07	0.00	0.00	10.44	6.14	25.84	24.12	17.58	40.52	7.21	13.30	0.00	0.00
4. HYDRAULIC EQUIPMENT	85.10	49.41	0.00	0.00	0.00	0.00	6.99	4.97	39.65	30.89	38.46	13.55	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE GENERATOR & OTHERS	388.51	58.29	0.00	0.00	14.83	2.24	0.00	0.00	127.35	19.12	197.73	29.68	48.61	7.25
-MAIN TRANSFORMER	28.98	2.90	0.00	0.00	0.00	0.00	0.00	0.00	2.32	0.23	28.66	2.66	0.00	0.00
6. TRANSMISSION SYSTEM	100.15	38.81	0.00	0.00	0.00	0.00	0.00	0.00	34.36	13.32	65.79	25.49	0.00	0.00
7. EGAT ADMINISTRATION	0.00	26.12	0.00	0.07	0.00	0.99	0.00	1.87	0.00	9.28	0.00	11.72	0.00	2.18
8. ENGINEERING SERVICE	1.76	0.53	1.16	0.35	0.59	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-D/D AND TENDER PREPARATION	12.58	4.88	0.00	0.00	0.96	0.38	2.95	1.14	3.35	1.30	4.27	1.66	1.05	0.40
-CONSTRUCTION SUPERVISION	0.00	71.58	0.00	0.00	0.00	1.54	0.00	0.72	0.00	24.25	0.00	40.10	0.00	4.98
9. IMPORT DUTIES & TAXES	677.65	352.22	1.16	2.82	26.82	13.19	35.28	36.74	224.61	144.23	340.13	140.43	49.66	14.81
SUM OF PRICE CONTINGENCY														

ANNUAL EXPENDITURE (ALTERNATIVE-1.2nd Stage)
BASE COST INCLUDE PHYSICAL CONTINGENCIES

DESCRIPTION	(UNIT: MILLION BAHT)													
	TOTAL		1st year		2nd year		3rd year		4th year		5th year		6th year	
	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.	F.C.	L.C.
1. PRELIMINARY WORKS	0.00	49.53	0.00	49.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	104.50	0.00	10.45	0.00	20.90	0.00	31.35	0.00	31.35	0.00	10.45	0.00	0.00
3. CIVIL WORKS	423.16	567.46	0.00	0.00	115.95	74.91	183.65	192.93	93.52	238.34	30.04	61.28	0.00	0.00
4. HYDRAULIC EQUIPMENT	421.78	283.91	0.00	0.00	0.00	0.00	50.62	39.75	210.89	181.71	160.27	62.45	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE GENERATOR & OTHERS	1830.80	303.95	0.00	0.00	164.77	27.35	0.00	0.00	677.40	112.47	823.87	136.79	164.77	27.35
-MAIN TRANSFORMER	123.42	13.64	0.00	0.00	0.00	0.00	0.00	0.00	12.35	1.37	111.08	12.27	0.00	0.00
6. TRANSMISSION SYSTEM	456.89	195.81	0.00	0.00	0.00	0.00	0.00	0.00	182.76	78.32	274.13	117.49	0.00	0.00
7. EGAT ADMINISTRATION	0.00	145.71	0.00	1.80	0.00	12.12	0.00	14.95	0.00	54.61	0.00	54.00	0.00	8.22
8. ENGINEERING SERVICE	33.00	11.00	26.40	8.80	6.60	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-D/D AND TENDER PREPARATION	71.19	30.51	0.00	0.00	10.68	4.38	21.36	9.15	17.80	7.63	17.80	7.63	3.56	1.53
-CONSTRUCTION SUPERVISION	0.00	370.74	0.00	0.00	0.00	18.78	0.00	5.77	0.00	142.62	0.00	184.78	0.00	18.78
9. IMPORT DUTIES & TAXES	3360.25	2076.77	26.40	70.58	288.00	160.84	255.63	292.91	1194.71	848.42	1417.19	647.14	168.33	55.88
T O T A L														
ECONOMIC COST	3360.25	1706.02	26.40	70.58	288.00	142.05	255.63	288.14	1194.71	705.80	1417.19	462.36	168.33	37.10

ANNUAL EXPENDITURE (ALTERNATIVE-1, 2nd Stage)

(UNIT: MILLION BAHT)

DESCRIPTION	TOTAL PROJECT COST (BASE COST INCLUDE PHYSICAL & PRICE CONTINGENCIES)		1st year		2nd year		3rd year		4th year		5th year		6th year		
	F.C	L.C	SUM	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
				F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	51.51	51.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	118.15	118.15	0.00	10.87	0.00	22.61	0.00	35.27	0.00	36.68	0.00	12.72	0.00	0.00
3. CIVIL WORKS	483.73	651.53	1135.26	0.00	0.00	126.39	81.05	208.99	217.05	111.10	278.85	37.25	74.58	0.00	0.00
4. HYDRAULIC EQUIPMENT	506.88	333.32	840.20	0.00	0.00	0.00	0.00	57.61	44.72	250.54	212.60	198.73	76.00	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP	2219.32	362.25	2581.56	0.00	0.00	179.60	29.59	0.00	0.00	804.75	131.59	1021.60	166.47	213.38	34.60
-TURBINE GENERATOR & OTHERS	152.40	16.54	168.94	0.00	0.00	0.00	0.00	0.00	0.00	14.67	1.60	137.74	14.94	0.00	0.00
-MAIN TRANSFORMER	557.04	234.62	791.66	0.00	0.00	0.00	0.00	0.00	0.00	217.11	91.64	339.93	142.98	0.00	0.00
6. TRANSMISSION SYSTEM	0.00	171.82	171.82	0.00	1.87	0.00	13.11	0.00	16.82	0.00	63.90	0.00	65.72	0.00	10.40
7. BOAT ADMINISTRATION	34.76	11.53	46.29	27.56	9.15	7.19	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8. ENGINEERING SERVICE	83.77	35.39	119.16	0.00	0.00	11.64	4.95	24.31	10.30	21.14	8.92	22.07	9.28	4.61	1.98
-D/O AND TENDER PREPARATION	0.00	442.32	442.32	0.00	0.00	0.00	20.32	0.00	6.49	0.00	186.87	0.00	224.88	0.00	23.76
-CONSTRUCTION SUPERVISION	4037.90	2428.99	6466.89	27.56	73.41	324.82	174.02	290.90	330.64	1419.32	992.65	1757.31	787.57	217.99	70.89
9. IMPORT DUTIES & TAXES	0.00	1145.89	1145.89	0.00	33.20	0.00	51.66	0.00	87.99	0.00	182.14	0.00	344.94	0.00	445.96
TOTAL (W/O IDC)	4037.90	3574.88	7612.78	27.56	106.61	324.82	225.68	290.90	418.63	1419.32	1174.79	1757.31	1132.51	217.99	516.63
IBC															
TOTAL PROJECT COST															

ANNUAL EXPENDITURE (ALTERNATIVE-2)
BASE COST (1991 PRICE)

DESCRIPTION	(UNIT: MILLION BAHT)													
	TOTAL		1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	123.31	0.00	50.00	0.00	73.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	120.00	0.00	12.00	0.00	24.00	0.00	36.00	0.00	36.00	0.00	12.00	0.00	0.00
3. CIVIL WORKS	1,114.49	1,951.80	2,466.29	0.00	305.37	178.44	483.69	459.61	246.30	567.78	79.13	145.99	0.00	0.00
4. HYDRAULIC EQUIPMENT	364.45	284.71	649.16	0.00	0.00	0.00	43.74	39.86	182.23	182.22	138.48	62.63	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS	1,829.21	289.59	2,118.87	0.00	164.62	26.06	0.00	0.00	676.81	105.67	823.14	130.32	164.64	27.54
-MAIN TRANSFORMER	115.35	12.75	128.10	0.00	0.00	0.00	0.00	0.00	11.54	1.28	103.81	11.47	0.00	0.00
6. TRANSMISSION SYSTEM	112.00	48.00	160.00	0.00	0.00	0.00	0.00	0.00	44.80	19.20	67.20	28.80	0.00	0.00
7. EGAT ADMINISTRATION	0.00	172.97	172.97	0.00	1.86	23.15	0.00	31.89	0.00	62.21	0.00	48.09	0.00	5.77
8. ENGINEERING SERVICE	30.00	10.00	40.00	24.00	8.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-D/D AND TENDER PREPARATION	93.08	39.89	132.97	0.00	13.96	5.98	27.92	11.97	23.27	9.97	23.27	9.97	4.65	1.99
-CONSTRUCTION SUPERVISION	0.00	287.71	287.71	0.00	0.00	18.77	0.00	4.99	0.00	109.04	0.00	136.15	0.00	18.77
9. IMPORT DUTIES & TAXES	3,658.58	2,740.74	6,399.39	24.00	71.86	351.71	555.35	584.31	1,184.95	1,038.36	1,235.03	585.42	169.29	54.07
SUM OF BASE COST														

ANNUAL EXPENDITURE (ALTERNATIVE-2)
PHYSICAL CONTINGENCY

DESCRIPTION	(UNIT: MILLION BAHT)													
	TOTAL		1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	12.33	0.00	5.00	0.00	7.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	12.00	0.00	1.20	0.00	2.40	0.00	3.60	0.00	3.60	0.00	1.20	0.00	0.00
3. CIVIL WORKS	111.45	135.18	246.63	0.00	30.54	17.84	48.37	45.96	24.63	56.78	7.91	14.60	0.00	0.00
4. HYDRAULIC EQUIPMENT	36.45	28.47	64.92	0.00	0.00	0.00	4.37	3.99	18.22	18.22	13.85	6.28	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS	128.04	20.27	148.32	0.00	11.52	1.82	0.00	0.00	47.38	7.40	57.62	9.12	11.52	1.93
-MAIN TRANSFORMER	8.07	0.89	8.97	0.00	0.00	0.00	0.00	0.00	0.81	0.09	7.27	0.80	0.00	0.00
6. TRANSMISSION SYSTEM	7.84	3.36	11.20	0.00	0.00	0.00	0.00	0.00	3.14	1.34	4.70	2.02	0.00	0.00
7. EGAT ADMINISTRATION	0.00	17.30	17.30	0.00	0.19	2.14	0.00	3.19	0.00	5.45	0.00	3.76	0.00	2.57
8. ENGINEERING SERVICE	3.00	1.00	4.00	2.40	0.80	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-D/D AND TENDER PREPARATION	9.31	3.99	13.30	0.00	1.40	0.60	2.79	1.20	2.33	1.00	2.33	1.00	0.47	0.20
-CONSTRUCTION SUPERVISION	0.00	21.39	21.39	0.00	0.00	1.31	0.00	0.50	0.00	8.26	0.00	10.00	0.00	1.31
9. IMPORT DUTIES & TAXES	304.16	256.18	560.34	2.40	7.19	33.66	55.54	58.43	96.50	102.13	93.68	48.77	11.99	6.01
SUM OF PHYSICAL CONTINGENCY														

ANNUAL EXPENDITURE (ALTERNATIVE-2)
PRICE CONTINGENCY

(UNIT: MILLION BAHT)

DESCRIPTION	TOTAL		1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	8.81	0.00	2.20	0.00	6.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	17.24	0.00	0.53	0.00	2.16	0.00	0.00	0.00	6.73	0.00	2.85	0.00	0.00
3. CIVIL WORKS	175.48	220.31	395.79	0.00	30.23	16.10	73.42	63.20	50.93	106.17	20.89	34.85	0.00	0.00
4. HYDRAULIC EQUIPMENT	80.88	54.51	135.39	0.00	0.00	0.00	6.64	5.48	37.69	34.08	36.56	14.95	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS	415.35	59.58	474.93	0.00	15.85	2.29	0.00	0.00	136.15	19.22	211.38	30.26	51.97	7.81
-MAIN TRANSFORMER	28.98	2.90	31.88	0.00	0.00	0.00	0.00	0.00	2.32	0.23	26.66	2.66	0.00	0.00
6. TRANSMISSION SYSTEM	26.27	10.18	36.45	0.00	0.00	0.00	0.00	0.00	9.01	3.49	17.26	6.69	0.00	0.00
7. EGAT ADMINISTRATION	0.00	31.50	31.50	0.00	0.00	2.07	0.00	4.38	0.00	11.50	0.00	11.25	0.00	2.21
8. ENGINEERING SERVICE	1.76	0.53	2.29	1.16	0.59	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-D/D AND TENDER PREPARATION	18.09	7.01	25.10	0.00	1.38	0.54	4.24	1.65	4.81	1.86	6.14	2.38	1.51	0.58
-CONSTRUCTION SUPERVISION	0.00	59.31	59.31	0.00	0.00	1.65	0.00	0.69	0.00	19.94	0.00	31.72	0.00	5.32
9. IMPORT DUTIES & TAXES	746.81	471.88	1218.69	1.16	3.16	48.06	84.30	80.34	240.91	203.23	318.89	137.62	53.48	15.92
SUM OF PRICE CONTINGENCY														

ANNUAL EXPENDITURE (ALTERNATIVE-2)
BASE COST INCLUDE PHYSICAL CONTINGENCIES

(UNIT: MILLION BAHT)

DESCRIPTION	TOTAL		1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	135.64	0.00	55.00	0.00	80.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	132.00	0.00	13.20	0.00	26.40	0.00	39.60	0.00	39.60	0.00	13.20	0.00	0.00
3. CIVIL WORKS	1225.94	1486.98	2712.82	0.00	335.91	196.28	592.06	505.57	270.93	624.54	87.04	180.59	0.00	0.00
4. HYDRAULIC EQUIPMENT	400.90	313.18	714.08	0.00	0.00	0.00	48.11	43.85	200.45	200.44	152.33	68.89	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP. -TURBINE, GENERATOR & OTHERS	1957.25	308.86	2266.12	0.00	176.14	27.88	0.00	0.00	724.19	113.07	880.76	139.44	176.16	29.47
-MAIN TRANSFORMER	123.42	13.64	137.07	0.00	0.00	0.00	0.00	0.00	12.35	1.37	111.08	12.27	0.00	0.00
6. TRANSMISSION SYSTEM	119.84	51.36	171.20	0.00	0.00	0.00	0.00	0.00	47.94	20.54	71.90	30.82	0.00	0.00
7. EGAT ADMINISTRATION	0.00	190.27	190.27	0.00	0.00	25.30	0.00	35.08	0.00	67.66	0.00	51.85	0.00	8.34
8. ENGINEERING SERVICE	33.00	11.00	44.00	26.40	8.80	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-D/D AND TENDER PREPARATION	102.39	43.88	146.27	0.00	15.36	6.58	30.72	13.16	25.60	10.97	25.60	10.97	5.12	2.19
-CONSTRUCTION SUPERVISION	0.00	309.10	309.10	0.00	0.00	20.08	0.00	5.48	0.00	117.30	0.00	146.15	0.00	20.08
9. IMPORT DUTIES & TAXES	3962.74	2896.91	6859.65	26.40	79.05	385.37	610.89	642.74	1281.45	1195.49	1328.71	634.19	181.28	60.08
T O T A L	3962.74	2687.82	6650.56	26.40	79.05	365.29	610.89	637.26	1281.45	1078.19	1328.71	488.03	181.28	40.00
ECONOMIC COST														

ANNUAL EXPENDITURE (ALTERNATIVE-2)
 TOTAL PROJECT COST (BASE COST INCLUDE PHYSICAL & PRICE CONTINGENCIES)

(UNIT: MILLION BAHT)

DESCRIPTION	TOTAL		1992		1993		1994		1995		1996		1997	
	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C	F.C	L.C
1. PRELIMINARY WORKS	0.00	144.45	0.00	57.20	0.00	87.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. ENVIRONMENTAL MITIGATION	0.00	149.24	0.00	13.73	0.00	28.56	0.00	44.55	0.00	46.38	0.00	16.08	0.00	0.00
3. CIVIL WORKS	1401.42	1707.29	0.00	3108.71	366.14	212.38	605.48	568.77	321.86	730.71	107.93	195.44	0.00	0.00
4. HYDRAULIC EQUIPMENT	481.78	367.69	0.00	849.47	0.00	0.00	54.75	49.33	238.14	234.52	188.89	83.84	0.00	0.00
5. ELECTRO-MECHANICAL EQUIP.														
-TURBINE GENERATOR & OTHERS	2372.61	369.44	0.00	2742.04	192.00	30.17	0.00	0.00	860.33	132.29	1092.14	169.70	228.13	37.28
-MAIN TRANSFORMER	152.40	16.54	0.00	168.94	0.00	0.00	0.00	0.00	14.67	1.60	137.74	14.94	0.00	0.00
6. TRANSMISSION SYSTEM	146.11	61.54	0.00	207.65	0.00	0.00	0.00	0.00	56.95	24.04	89.16	37.50	0.00	0.00
7. EGAT ADMINISTRATION	0.00	221.77	0.00	221.77	0.00	27.37	0.00	39.46	0.00	79.16	0.00	63.10	0.00	10.55
8. ENGINEERING SERVICE														
-D/O AND TENDER PREPARATION	34.76	11.53	27.56	46.29	7.19	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-CONSTRUCTION SUPERVISION	120.48	50.89	0.00	171.37	16.74	7.12	34.96	14.81	30.41	12.84	31.74	13.35	6.63	2.78
9. IMPORT DUTIES & TAXES	0.00	368.41	0.00	368.41	0.00	21.73	0.00	6.17	0.00	137.24	0.00	177.87	0.00	25.40
TOTAL (W/O IDC)	4709.55	3468.79	27.56	8178.34	582.07	416.97	695.19	723.08	1522.36	1398.72	1647.60	771.80	234.76	76.00
IDC	0.00	1560.53	0.00	38.48	0.00	72.23	0.00	149.45	0.00	285.08	0.00	459.22	0.00	556.06
TOTAL PROJECT COST	4709.55	5029.32	27.56	9738.87	582.07	489.20	695.19	872.53	1522.36	1683.81	1647.60	1231.02	234.76	632.06