

PROJECT NAME : MALANAS (LICUANO)
 PROJECT ID : 1-022-03-17-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP (MW))	(5.0)	(4.5)	(5.3)	(4.3)	(5.2)	(4.1)	(4.3)	(4.6)	(4.9)	(5.2)
STORAGE DAM	55.51	45.98	55.51	44.77	55.51	42.65	44.55	47.30	51.19	55.51
SPILLWAY	9.02	8.45	9.02	8.29	9.02	8.12	8.27	8.47	8.73	9.02
DIVERSION TUNNEL	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98	11.98
INTAKE (PRESSURE TYPE)	0.46	0.43	0.36	0.41	0.34	0.40	0.38	0.36	0.34	0.32
HEADRACE TUNNEL (PRESSURE)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
SURGE TANK	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16
PENSTOCK	0.54	0.52	0.57	0.52	0.57	0.51	0.53	0.54	0.55	0.56
(PRESSURE SHAFT)	(0.33)	(0.32)	(0.34)	(0.32)	(0.34)	(0.32)	(0.33)	(0.34)	(0.34)	(0.34)
(STEEL LINER)	(0.21)	(0.20)	(0.23)	(0.19)	(0.23)	(0.19)	(0.20)	(0.21)	(0.22)	(0.23)
POWERHOUSE BUILDING	0.29	0.26	0.29	0.25	0.29	0.24	0.25	0.26	0.27	0.28
(SUPER STRUCTURE)	(0.13)	(0.12)	(0.13)	(0.11)	(0.13)	(0.11)	(0.11)	(0.12)	(0.12)	(0.13)
(SUB STRUCTURE)	(0.16)	(0.15)	(0.16)	(0.14)	(0.16)	(0.14)	(0.14)	(0.15)	(0.15)	(0.16)
MISCELLANEOUS CIVIL WORK	3.95	3.49	3.95	3.37	3.95	3.26	3.36	3.51	3.71	3.94
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	1.97	1.84	1.97	1.79	1.94	1.73	1.78	1.82	1.87	1.91
ENGINEERING/ADMINISTRATION	10.62	9.40	10.61	9.07	10.60	8.76	9.04	9.43	9.98	10.59
CONTINGENCIES	19.11	16.91	19.09	15.33	19.08	15.77	16.27	16.98	17.97	19.07
S U B T O T A L	114.67	101.47	114.57	97.99	114.49	94.64	97.60	101.85	107.80	114.41

ACCESS ROAD (ROAD LENGTH 17.0 KM)

CONSTRUCTION COST	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74
ENGINEERING ADMINISTRATION	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
CONTINGENCIES	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
S U B T O T A L	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85

TRANSMISSION LINE SYSTEM (T/L LENGTH 26.0 KM)

TRANSMISSION LINE	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
CONTINGENCIES	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
S U B T O T A L	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12

T O T A L : 120.64 107.44 120.54 103.96 120.46 100.61 103.57 107.82 113.77 120.38

EVALUATION INDICES

U S D / K W	24241.9	24079.3	22944.9	24294.2	23088.1	24536.5	23871.3	23444.2	23310.4	23262.3
U S D / K W H	5.378	5.292	5.051	5.314	5.060	5.340	5.202	5.113	5.085	5.076

PROJECT NAME : TAPING
 PROJECT ID : 1-022-04-18-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP. (MW))	(6.7)	(5.2)	(5.9)	(6.6)	(4.9)	(5.6)	(6.5)	(4.6)	(5.4)	(6.3)
STORAGE DAM	118.82	86.84	99.75	118.82	81.90	95.71	118.82	76.45	91.65	118.82
SPILLWAY	10.30	9.18	9.64	10.30	8.96	9.50	10.30	8.73	9.35	10.30
DIVERSION TUNNEL	18.71	18.71	18.71	18.71	18.71	18.71	18.71	18.71	18.71	18.71
INTAKE (PRESSURE TYPE)	0.43	0.46	0.42	0.37	0.45	0.39	0.35	0.42	0.37	0.33
HEADRACE TUNNEL (PRESSURE)	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
SURGE TANK	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.17	0.17
PENSTOCK	1.04	0.94	0.99	1.04	0.92	0.98	1.03	0.91	0.96	1.02
(PRESSURE SHAFT)	(0.60)	(0.57)	(0.58)	(0.59)	(0.57)	(0.58)	(0.59)	(0.56)	(0.57)	(0.59)
(STEEL LINER)	(0.44)	(0.37)	(0.40)	(0.44)	(0.36)	(0.40)	(0.44)	(0.35)	(0.39)	(0.43)
POWERHOUSE BUILDING	0.36	0.30	0.33	0.35	0.29	0.32	0.35	0.27	0.30	0.34
(SUPER STRUCTURE)	(0.16)	(0.13)	(0.15)	(0.16)	(0.13)	(0.14)	(0.15)	(0.12)	(0.13)	(0.15)
(SUB STRUCTURE)	(0.20)	(0.17)	(0.18)	(0.20)	(0.16)	(0.18)	(0.19)	(0.15)	(0.17)	(0.19)
MISCELLANEOUS CIVIL WORK	7.54	5.89	6.55	7.54	5.62	6.34	7.54	5.33	6.13	7.54
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	2.37	2.07	2.18	2.30	2.00	2.12	2.25	1.91	2.04	2.19
ENGINEERING/ADMINISTRATION	20.10	15.71	17.47	20.08	15.01	16.91	20.07	14.24	16.34	20.05
CONTINGENCIES	36.18	28.28	31.45	36.14	27.01	30.43	36.12	25.63	29.41	36.10
S U B T O T A L	217.06	169.69	183.70	216.87	162.06	182.61	216.74	153.81	175.45	216.58

ACCESS ROAD (ROAD LENGTH 4.0 KM)

CONSTRUCTION COST	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
ENGINEERING ADMINISTRATION	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
CONTINGENCIES	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
S U B T O T A L	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14

TRANSMISSION LINE SYSTEM (T/L LENGTH 18.0 KM)

TRANSMISSION LINE	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
CONTINGENCIES	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
S U B T O T A L	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88

T O T A L : 219.08 171.71 190.73 218.89 164.09 184.63 218.77 155.83 176.48 218.61

EVALUATION INDICES

U S D / K W	32622.2	33141.3	32597.4	33093.3	33379.7	32723.4	33660.5	33738.1	33040.5	34494.6
U S D / K W H	7.184	7.213	7.109	7.226	7.218	7.095	7.307	7.236	7.110	7.433

PROJECT NAME : UPPER MAGUYEPYEP
 PROJECT ID : 1-022-05-19-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(9.7)	(8.7)	(10.2)	(8.3)	(10.1)	(8.0)	(8.4)	(8.9)	(9.5)	(10.0)
STORAGE DAM	70.75	59.07	70.75	55.63	70.75	52.46	55.33	59.43	64.31	70.75
SPILLWAY	12.29	11.53	12.29	11.30	12.29	11.06	11.28	11.56	11.89	12.29
DIVERSION TUNNEL	15.55	15.55	15.55	15.55	15.55	15.55	15.55	15.55	15.55	15.55
INTAKE (PRESSURE TYPE)	0.71	0.66	0.56	0.64	0.53	0.61	0.58	0.55	0.52	0.49
HEADRACE TUNNEL (PRESSURE)	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
SURGE TANK	0.30	0.29	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27
PENSTOCK	1.03	0.99	1.08	0.98	1.08	0.96	0.99	1.02	1.05	1.08
(PRESSURE SHAFT)	(0.55)	(0.55)	(0.57)	(0.55)	(0.57)	(0.54)	(0.55)	(0.56)	(0.56)	(0.57)
(STEEL LINER)	(0.47)	(0.44)	(0.51)	(0.43)	(0.51)	(0.42)	(0.44)	(0.46)	(0.49)	(0.51)
POWERHOUSE BUILDING	0.53	0.48	0.54	0.47	0.53	0.45	0.47	0.49	0.50	0.52
(SUPER STRUCTURE)	(0.23)	(0.22)	(0.24)	(0.21)	(0.24)	(0.20)	(0.21)	(0.22)	(0.22)	(0.23)
(SUB STRUCTURE)	(0.29)	(0.27)	(0.30)	(0.26)	(0.30)	(0.25)	(0.26)	(0.27)	(0.28)	(0.29)
MISCELLANEOUS CIVIL WORK	5.12	4.49	5.12	4.31	5.11	4.13	4.29	4.51	4.77	5.11
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	3.33	3.11	3.34	3.03	3.29	2.94	3.01	3.08	3.16	3.24
ENGINEERING/ADMINISTRATION	13.86	12.18	13.85	11.69	13.84	11.22	11.63	12.22	12.91	13.82
CONTINGENCIES	24.95	21.93	24.93	21.03	24.91	20.19	20.94	21.99	23.24	24.88
S U B T O T A L	149.70	131.57	149.56	126.16	149.43	121.12	125.61	131.95	139.47	149.30

ACCESS ROAD (ROAD LENGTH 14.0 KM)

CONSTRUCTION COST	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08
ENGINEERING ADMINISTRATION	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
CONTINGENCIES	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
S U B T O T A L	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99

TRANSMISSION LINE SYSTEM (T/L LENGTH 55.0 KM)

TRANSMISSION LINE	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
CONTINGENCIES	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
S U B T O T A L	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99

T O T A L : 155.67 137.55 155.54 132.14 155.41 127.10 131.59 137.93 145.44 155.28

EVALUATION INDICES

U S D / K W	16130.0	15827.2	15252.7	15855.3	15334.5	15918.0	15580.5	15427.7	15349.5	15454.4
U S D / K W H	3.580	3.481	3.360	3.470	3.364	3.467	3.399	3.366	3.351	3.376

PROJECT NAME : BUCLOC
 PROJECT ID : 1-022-05-20-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(5.9)	(5.4)	(6.3)	(5.1)	(6.2)	(4.9)	(5.2)	(5.5)	(5.8)	(6.2)
STORAGE DAM	82.35	70.91	82.35	67.49	82.35	64.04	66.75	70.61	75.46	82.35
SPILLWAY	9.87	9.30	9.87	9.12	9.87	8.94	9.06	9.29	9.54	9.87
DIVERSION TUNNEL	12.65	12.65	12.65	12.65	12.65	12.65	12.65	12.65	12.65	12.65
INTAKE (PRESSURE TYPE)	0.50	0.46	0.38	0.45	0.35	0.43	0.40	0.38	0.35	0.33
HEADRACE TUNNEL (PRESSURE)	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77
SURGE TANK	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16
PENSTOCK	0.55	0.53	0.59	0.53	0.59	0.52	0.54	0.55	0.57	0.59
(PRESSURE SHAFT)	(0.32)	(0.32)	(0.34)	(0.32)	(0.34)	(0.32)	(0.32)	(0.33)	(0.34)	(0.34)
(STEEL LINER)	(0.23)	(0.21)	(0.25)	(0.21)	(0.25)	(0.20)	(0.21)	(0.22)	(0.24)	(0.25)
POWERHOUSE BUILDING	0.33	0.31	0.34	0.30	0.33	0.28	0.29	0.31	0.32	0.33
(SUPER STRUCTURE)	(0.15)	(0.14)	(0.15)	(0.13)	(0.15)	(0.13)	(0.13)	(0.14)	(0.14)	(0.15)
(SUB STRUCTURE)	(0.18)	(0.17)	(0.19)	(0.16)	(0.19)	(0.16)	(0.16)	(0.17)	(0.18)	(0.18)
MISCELLANEOUS CIVIL WORK	5.36	4.76	5.36	4.57	5.36	4.39	4.53	4.74	4.99	5.35
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	2.22	2.06	2.22	2.02	2.19	1.96	2.00	2.05	2.10	2.15
ENGINEERING/ADMINISTRATION	14.35	12.74	14.34	12.26	14.33	11.77	12.15	12.59	13.36	14.32
CONTINGENCIES	25.82	22.94	25.31	22.06	25.79	21.18	21.87	22.84	24.06	25.78
S U B T O T A L	154.95	137.62	154.83	132.38	154.74	127.10	131.21	137.03	144.33	154.65

ACCESS ROAD (ROAD LENGTH 25.0 KM)

CONSTRUCTION COST	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50
ENGINEERING ADMINISTRATION	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
CONTINGENCIES	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
S U B T O T A L	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13

TRANSMISSION LINE SYSTEM (T/L LENGTH 36.0 KM)

TRANSMISSION LINE	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
CONTINGENCIES	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
S U B T O T A L	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48

T O T A L : 163.56 146.23 163.44 140.90 163.35 135.71 139.82 145.64 152.94 163.26

EVALUATION INDICES

U S D / K W : 27529.5 27271.1 25997.3 27406.6 26201.4 27522.5 26912.2 26526.8 26345.8 26505.3

U S D / K W H : 6.111 5.997 5.726 5.998 5.746 5.994 5.867 5.767 5.750 5.786

PROJECT NAME : DAGUICOMAN
 PROJECT ID : 1-022-05-21-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST.CAP.(MW))	(2.9)	(2.3)	(2.5)	(2.9)	(2.1)	(2.5)	(2.6)	(2.0)	(2.4)	(2.7)
STORAGE DAM	49.94	37.40	41.87	49.94	35.27	40.27	49.94	32.55	39.09	49.94
SPILLWAY	6.63	5.96	6.22	6.63	5.82	6.14	6.63	5.66	6.06	6.63
DIVERSION TUNNEL	12.89	12.89	12.89	12.89	12.89	12.89	12.89	12.89	12.89	12.89
INTAKE (PRESSURE TYPE)	0.24	0.28	0.25	0.23	0.27	0.24	0.21	0.25	0.22	0.19
HEADRACE TUNNEL (PRESSURE)	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
SURGE TANK	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09
PENSTOCK	0.53	0.49	0.51	0.53	0.48	0.51	0.53	0.48	0.50	0.53
(PRESSURE SHAFT)	(0.34)	(0.33)	(0.34)	(0.34)	(0.32)	(0.33)	(0.34)	(0.32)	(0.33)	(0.34)
(STEEL LINER)	(0.19)	(0.16)	(0.18)	(0.19)	(0.15)	(0.17)	(0.19)	(0.16)	(0.17)	(0.19)
POWERHOUSE BUILDING	0.17	0.15	0.16	0.17	0.14	0.15	0.17	0.13	0.15	0.16
(SUPER STRUCTURE)	(0.08)	(0.06)	(0.07)	(0.08)	(0.06)	(0.07)	(0.07)	(0.06)	(0.06)	(0.07)
(SUB STRUCTURE)	(0.10)	(0.08)	(0.09)	(0.09)	(0.08)	(0.08)	(0.09)	(0.07)	(0.08)	(0.09)
MISCELLANEOUS CIVIL WORK	3.55	2.89	3.13	3.55	2.78	3.04	3.55	2.64	2.98	3.55
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	1.26	1.13	1.18	1.24	1.09	1.15	1.22	1.04	1.11	1.18
ENGINEERING/ADMINISTRATION	9.49	7.73	8.36	9.48	7.43	8.13	9.48	7.05	7.96	9.47
CONTINGENCIES	17.06	13.92	15.05	17.07	13.97	14.64	17.06	12.69	14.33	17.04
S U B T O T A L	102.47	83.51	90.30	102.41	80.21	87.83	102.34	76.16	85.97	102.25

ACCESS ROAD (ROAD LENGTH 30.0 KM)

CONSTRUCTION COST	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60
ENGINEERING ADMINISTRATION	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
CONTINGENCIES	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43
S U B T O T A L	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55

TRANSMISSION LINE SYSTEM (T/L LENGTH 41.0 KM)

TRANSMISSION LINE	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
CONTINGENCIES	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
S U B T O T A L	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57

T O T A L : 112.59 93.63 100.42 112.53 90.34 97.96 112.46 86.28 96.09 112.38

EVALUATION INDICES

U S D / K W	39084.0	41323.3	39564.6	39448.8	42031.5	39938.8	40116.0	42878.3	40802.3	41104.5
U S D / K W H	8.555	8.982	8.617	8.595	9.076	8.647	8.688	9.182	8.767	8.835

PROJECT NAME : BOYAN
 PROJECT ID : 1-022-05-22-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(15.2)	(12.5)	(13.7)	(15.1)	(12.0)	(13.4)	(15.0)	(11.4)	(13.0)	(14.6)
STORAGE DAM	175.85	140.21	153.61	175.85	131.82	148.56	175.85	123.71	143.82	175.85
SPILLWAY	15.85	14.59	15.09	15.85	14.27	14.91	15.85	13.96	14.73	15.85
DIVERSION TUNNEL	22.13	22.13	22.13	22.13	22.13	22.13	22.13	22.13	22.13	22.13
INTAKE (PRESSURE TYPE)	0.70	0.79	0.72	0.65	0.76	0.68	0.61	0.73	0.65	0.57
HEADRACE TUNNEL (PRESSURE)	1.28	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
SURGE TANK	0.34	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.31	0.31
PENSTOCK	1.77	1.58	1.67	1.76	1.55	1.65	1.76	1.52	1.63	1.75
(PRESSURE SHAFT)	(0.83)	(0.79)	(0.81)	(0.83)	(0.79)	(0.81)	(0.82)	(0.78)	(0.80)	(0.82)
(STEEL LINER)	(0.94)	(0.79)	(0.86)	(0.94)	(0.77)	(0.85)	(0.94)	(0.74)	(0.83)	(0.93)
POWERHOUSE BUILDING	0.75	0.65	0.69	0.74	0.63	0.68	0.73	0.60	0.65	0.71
(SUPER STRUCTURE)	(0.33)	(0.29)	(0.31)	(0.33)	(0.28)	(0.30)	(0.32)	(0.27)	(0.29)	(0.32)
(SUB STRUCTURE)	(0.41)	(0.36)	(0.38)	(0.41)	(0.35)	(0.38)	(0.40)	(0.33)	(0.36)	(0.40)
MISCELLANEOUS CIVIL WORK	10.93	9.08	9.78	10.93	8.64	9.51	10.93	8.21	9.26	10.92
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	4.33	3.94	4.10	4.27	3.82	4.01	4.21	3.69	3.90	4.12
ENGINEERING/ADMINISTRATION	26.69	24.21	25.17	26.58	23.15	24.80	26.67	22.02	24.46	26.66
CONTINGENCIES	52.12	43.75	46.91	52.09	41.67	45.70	52.06	39.63	44.56	52.03
S U B T O T A L	312.73	262.53	281.45	312.55	250.04	274.22	312.38	237.77	267.36	312.17

ACCESS ROAD (ROAD LENGTH 20.0 KM)

CONSTRUCTION COST	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
ENGINEERING ADMINISTRATION	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
CONTINGENCIES	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
S U B T O T A L	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70

TRANSMISSION LINE SYSTEM (T/L LENGTH 56.0 KM)

TRANSMISSION LINE	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
CONTINGENCIES	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
S U B T O T A L	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02

T O T A L : 320.45 270.25 289.17 320.27 257.76 281.94 320.10 245.49 275.08 319.88

EVALUATION INDICES

U S D / K W	21015.5	21576.2	21050.9	21157.6	21485.7	21053.8	21343.9	21506.8	21205.9	21678.5
U S D / K W H	4.635	4.727	4.619	4.646	4.685	4.599	4.667	4.658	4.605	4.713

PROJECT NAME : IKMIN
 PROJECT ID : 1-022-05-23-0
 TYPE : RUN-OF-RIVER

(UNIT : MILLION USD.)

 * SUMMARY TABLE OF COST ESTIMATE *

I T E M	C A S E					
	1	2	3	4	5	6
POWER DEVELOPMENT (INST. CAP. (MW))	(2.4)	(3.2)	(4.3)	(6.2)	(9.1)	(10.2)
DIVERSION DAM/WEIR	0.78	0.81	0.85	0.87	0.89	0.90
INTAKE (NON-PRESSURE TYPE)	0.13	0.15	0.19	0.25	0.32	0.34
HEADRACE TUNNEL (NON-PRES.)	6.97	6.97	6.97	8.21	9.85	10.70
HEAD TANK	0.11	0.13	0.17	0.21	0.26	0.28
PENSTOCK	0.63	0.87	0.93	1.08	1.28	1.36
(PRESSURE SHAFT)	(0.53)	(0.53)	(0.54)	(0.60)	(0.67)	(0.69)
(STEEL LINER)	(0.30)	(0.34)	(0.39)	(0.48)	(0.61)	(0.67)
POWERHOUSE BUILDING	0.11	0.15	0.21	0.42	0.62	0.69
(SUPER STRUCTURE)	(0.05)	(0.07)	(0.09)	(0.19)	(0.27)	(0.31)
(SUB STRUCTURE)	(0.06)	(0.08)	(0.12)	(0.23)	(0.34)	(0.38)
MISCELLANEOUS CIVIL WORK	0.45	0.45	0.47	0.55	0.66	0.71
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	0.76	1.01	1.36	1.88	2.65	2.92
ENGINEERING/ADMINISTRATION	1.27	1.32	1.39	1.68	2.07	2.24
CONTINGENCIES	2.28	2.38	2.51	3.03	3.72	4.03
S U B T O T A L	13.69	14.25	15.04	18.18	22.31	24.16

ACCESS ROAD (ROAD LENGTH 20.5 KM)

CONSTRUCTION COST	4.51	4.51	4.51	4.51	4.51	4.51
ENGINEERING ADMINISTRATION	0.36	0.36	0.36	0.36	0.36	0.36
CONTINGENCIES	0.97	0.97	0.97	0.97	0.97	0.97
S U B T O T A L	5.84	5.84	5.84	5.84	5.84	5.84

TRANSMISSION LINE SYSTEM (T/L LENGTH 40.0 KM)

TRANSMISSION LINE	0.92	0.92	0.92	0.92	0.92	0.92
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.15	0.15	0.15	0.15	0.15	0.15
CONTINGENCIES	0.20	0.20	0.20	0.20	0.20	0.20
S U B T O T A L	1.54	1.54	1.54	1.54	1.54	1.54

T O T A L : 21.08 21.64 22.42 25.56 29.70 31.55

EVALUATION INDICES

U S D / K W	8813.3	6702.5	5180.0	4125.7	3272.2	3085.8
U S D / K W H	1.431	1.362	1.347	1.365	1.388	1.406

PROJECT NAME : TOQUENG
 PROJECT ID : I-022-05-24-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(8.7)	(7.9)	(9.2)	(7.6)	(9.2)	(7.2)	(7.6)	(8.1)	(8.6)	(9.1)
STORAGE DAM	109.40	93.40	109.40	88.40	109.40	83.24	87.88	93.71	100.63	109.40
SPILLWAY	12.12	11.37	12.12	11.12	12.12	10.87	11.10	11.39	11.71	12.12
DIVERSION TUNNEL	16.02	16.02	16.02	16.02	16.02	16.02	16.02	16.02	16.02	16.02
INTAKE (PRESSURE TYPE)	0.66	0.61	0.53	0.59	0.50	0.57	0.54	0.52	0.49	0.47
HEADRACE TUNNEL (PRESSURE)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
SURGE TANK	0.25	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23
PENSTOCK	1.07	1.03	1.12	1.02	1.12	1.00	1.03	1.06	1.08	1.12
(PRESSURE SHAFT)	(0.59)	(0.50)	(0.60)	(0.58)	(0.60)	(0.57)	(0.58)	(0.59)	(0.59)	(0.60)
(STEEL LINER)	(0.48)	(0.45)	(0.52)	(0.44)	(0.52)	(0.43)	(0.45)	(0.47)	(0.48)	(0.52)
POWERHOUSE BUILDING	0.47	0.44	0.48	0.42	0.48	0.40	0.42	0.44	0.45	0.47
(SUPER STRUCTURE)	(0.21)	(0.19)	(0.21)	(0.19)	(0.21)	(0.18)	(0.19)	(0.19)	(0.20)	(0.21)
(SUB STRUCTURE)	(0.26)	(0.24)	(0.27)	(0.23)	(0.26)	(0.22)	(0.23)	(0.24)	(0.25)	(0.26)
MISCELLANEOUS CIVIL WORK	7.05	6.21	7.05	5.94	7.05	5.67	5.91	6.22	6.58	7.04
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	3.00	2.81	3.01	2.73	2.97	2.65	2.71	2.78	2.85	2.92
ENGINEERING/ADMINISTRATION	18.89	16.65	18.88	15.94	18.87	15.21	15.80	16.68	17.64	18.86
CONTINGENCIES	34.00	29.97	33.98	28.69	33.96	27.38	28.55	30.02	31.75	33.94
S U B T O T A L	203.98	179.60	203.87	172.17	203.75	164.29	171.30	180.11	190.50	203.63

ACCESS ROAD (ROAD LENGTH 30.0 KM)

CONSTRUCTION COST	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60
ENGINEERING ADMINISTRATION	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
CONTINGENCIES	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43
S U B T O T A L	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55

TRANSMISSION LINE SYSTEM (T/L LENGTH 36.0 KM)

TRANSMISSION LINE	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
CONTINGENCIES	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
S U B T O T A L	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42

T O T A L

EVALUATION INDICES

U S D / K W	24462.8	24043.6	23208.5	24111.4	23307.2	24140.3	23793.8	23461.5	23392.5	23468.6
U S D / K W H	5.426	5.267	5.114	5.277	5.114	5.257	5.174	5.124	5.108	5.131

PROJECT NAME : DANAC
 PROJECT ID : 1-022-05-25-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP (MW))	(5.6)	(5.1)	(5.9)	(4.9)	(5.8)	(4.7)	(4.9)	(5.2)	(5.4)	(5.8)
STORAGE DAM	51.71	43.81	51.71	41.80	51.71	39.49	41.43	43.84	47.33	51.71
SPILLWAY	10.26	9.64	10.26	9.46	10.26	9.26	9.43	9.64	9.92	10.26
DIVERSION TUNNEL	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28
INTAKE (PRESSURE TYPE)	0.46	0.42	0.36	0.41	0.33	0.39	0.37	0.35	0.33	0.31
HEADRACE TUNNEL (PRESSURE)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
SURGE TANK	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14
PENSTOCK	0.64	0.62	0.67	0.61	0.68	0.60	0.62	0.64	0.66	0.68
(PRESSURE SHAFT)	(0.37)	(0.37)	(0.39)	(0.37)	(0.37)	(0.37)	(0.37)	(0.38)	(0.38)	(0.39)
(STEEL LINER)	(0.26)	(0.25)	(0.28)	(0.24)	(0.29)	(0.24)	(0.25)	(0.26)	(0.27)	(0.29)
POWERHOUSE BUILDING	0.30	0.28	0.31	0.27	0.30	0.26	0.27	0.28	0.29	0.30
(SUPER STRUCTURE)	(0.13)	(0.12)	(0.14)	(0.12)	(0.13)	(0.12)	(0.12)	(0.12)	(0.13)	(0.13)
(SUB STRUCTURE)	(0.17)	(0.15)	(0.17)	(0.15)	(0.17)	(0.14)	(0.15)	(0.15)	(0.16)	(0.17)
MISCELLANEOUS CIVIL WORK	3.74	3.31	3.73	3.20	3.73	3.07	3.18	3.31	3.50	3.73
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	2.00	1.87	2.00	1.82	1.97	1.77	1.81	1.85	1.89	1.94
ENGINEERING/ADMINISTRATION	10.06	8.92	10.05	8.62	10.05	8.28	8.55	8.91	9.41	10.04
CONTINGENCIES	18.11	16.05	18.10	15.52	18.08	14.90	15.41	16.04	16.94	18.07
S U B T O T A L	109.68	99.31	108.58	93.09	108.50	89.41	92.46	96.24	101.65	108.42

ACCESS ROAD (ROAD LENGTH 35.5 KM)

CONSTRUCTION COST	8.03	8.03	8.03	8.03	8.03	8.03	8.03	8.03	8.03	8.03
ENGINEERING ADMINISTRATION	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
CONTINGENCIES	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73
S U B T O T A L	10.41	10.41	10.41	10.41	10.41	10.41	10.41	10.41	10.41	10.41

TRANSMISSION LINE SYSTEM (T/L LENGTH 32.0 KM)

TRANSMISSION LINE	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
CONTINGENCIES	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
S U B T O T A L	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30

T O T A L : 120.39 108.02 120.29 104.80 120.21 101.12 104.17 107.95 113.36 120.13

EVALUATION INDICES

U S D / K W	21506.3	21359.4	20506.4	21570.6	20638.6	21737.4	21274.1	20929.1	20806.7	20840.7
U S D / K W H	4.776	4.702	4.521	4.726	4.531	4.739	4.643	4.571	4.547	4.556

PROJECT NAME : AMLUAGAN
 PROJECT ID : 1-022-06-26-0
 TYPE : RESERVOIR

(UNIT : MILLION USD)

 * SUMMARY TABLE OF COST ESTIMATE *

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST.CAP<MW>)	(7.2)	(5.2)	(6.1)	(7.0)	(4.9)	(5.8)	(6.9)	(4.6)	(5.5)	(6.7)
STORAGE DAM	122.34	85.06	99.04	122.34	79.59	95.03	122.34	73.60	91.11	122.34
SPILLWAY	11.06	9.51	10.13	11.06	9.24	9.96	11.06	8.95	9.79	11.06
DIVERSION TUNNEL	17.47	17.47	17.47	17.47	17.47	17.47	17.47	17.47	17.47	17.47
INTAKE (PRESSURE TYPE)	0.43	0.47	0.42	0.38	0.45	0.39	0.35	0.42	0.37	0.32
HEADRACE TUNNEL (PRESSURE)	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SURGE TANK	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.16
PENSTOCK	1.21	1.07	1.13	1.20	1.05	1.12	1.19	1.03	1.10	1.18
(PRESSURE SHAFT)	(0.68)	(0.65)	(0.66)	(0.68)	(0.64)	(0.66)	(0.67)	(0.64)	(0.65)	(0.67)
(STEEL LINER)	(0.53)	(0.43)	(0.47)	(0.53)	(0.41)	(0.46)	(0.52)	(0.39)	(0.45)	(0.51)
POWERHOUSE BUILDING	0.38	0.30	0.33	0.37	0.29	0.32	0.36	0.27	0.31	0.35
(SUPER STRUCTURE)	(0.17)	(0.13)	(0.15)	(0.16)	(0.13)	(0.14)	(0.16)	(0.12)	(0.14)	(0.15)
(SUB STRUCTURE)	(0.21)	(0.17)	(0.18)	(0.20)	(0.16)	(0.18)	(0.20)	(0.15)	(0.17)	(0.19)
MISCELLANEOUS CIVIL WORK	7.70	5.75	6.48	7.69	5.46	6.27	7.69	5.14	6.06	7.69
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	2.43	2.07	2.20	2.35	1.97	2.12	2.28	1.88	2.04	2.22
ENGINEERING/ADMINISTRATION	20.51	15.35	17.29	20.49	14.56	16.72	20.48	13.73	16.16	20.46
CONTINGENCIES	36.92	27.63	31.12	36.89	26.24	30.09	36.86	24.71	29.10	36.83
S U B T O T A L	221.54	165.77	186.70	221.31	157.41	180.56	221.15	148.29	174.58	220.98

ACCESS ROAD (ROAD LENGTH 13.0 KM)

CONSTRUCTION COST	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86
ENGINEERING ADMINISTRATION	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
CONTINGENCIES	0.52	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
S U B T O T A L	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71

TRANSMISSION LINE SYSTEM (T/L LENGTH 24.0 KM)

TRANSMISSION LINE	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
CONTINGENCIES	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
S U B T O T A L	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06

T O T A L : 226.31 170.54 191.47 226.08 162.18 185.33 225.92 153.06 179.35 225.75

EVALUATION INDICES

U S D / K W	31423.5	32501.5	31570.4	32117.8	32977.0	31951.3	32384.0	33361.5	32362.1	32725.1
U S D / K W H	6.892	7.027	6.845	6.974	7.070	6.876	7.083	7.090	6.909	7.214

PROJECT NAME : DAMANIT
 PROJECT ID : 1-022-06-27-0
 TYPE : RUN-OF-RIVER

 * SUMMARY TABLE OF COST ESTIMATE *

 (UNIT : MILLION USD)

I T E M	C A S E					
	1	2	3	4	5	6
POWER DEVELOPMENT (INST. CAP (MW))	(1.4)	(1.9)	(2.8)	(3.9)	(5.7)	(6.3)
DIVERSION DAM/WEIR	0.27	0.27	0.28	0.29	0.31	0.31
INTAKE (NON-PRESSURE TYPE)	0.06	0.07	0.06	0.10	0.13	0.13
HEADRACE TUNNEL (NON-PRES.)	2.78	2.78	2.78	2.78	2.78	2.78
HEAD TANK	0.04	0.05	0.07	0.08	0.11	0.11
PENSTOCK	1.87	1.92	2.00	2.11	2.29	2.35
(PRESSURE SHAFT)	(1.21)	(1.21)	(1.21)	(1.21)	(1.21)	(1.21)
(STEEL LINER)	(0.55)	(0.70)	(0.78)	(0.90)	(1.07)	(1.13)
POWERHOUSE BUILDING	0.05	0.07	0.09	0.19	0.22	0.31
(SUPER STRUCTURE)	(0.02)	(0.03)	(0.04)	(0.09)	(0.12)	(0.14)
(SUB STRUCTURE)	(0.03)	(0.04)	(0.05)	(0.11)	(0.16)	(0.17)
MISCELLANEOUS CIVIL WORK	0.25	0.26	0.27	0.28	0.29	0.30
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	0.31	0.42	0.58	0.60	1.12	1.23
ENGINEERING/ADMINISTRATION	0.70	0.73	0.77	0.83	0.91	0.94
CONTINGENCIES	1.27	1.31	1.38	1.49	1.64	1.69
S U B T O T A L	7.60	7.89	8.30	8.96	9.85	10.15

ACCESS ROAD (ROAD LENGTH 30.5 KM)

CONSTRUCTION COST	6.71	6.71	6.71	6.71	6.71	6.71
ENGINEERING ADMINISTRATION	0.54	0.54	0.54	0.54	0.54	0.54
CONTINGENCIES	1.45	1.45	1.45	1.45	1.45	1.45
S U B T O T A L	8.70	8.70	8.70	8.70	8.70	8.70

TRANSMISSION LINE SYSTEM (T/L LENGTH 44.0 KM)

TRANSMISSION LINE	1.01	1.01	1.01	1.01	1.01	1.01
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.16	0.16	0.16	0.16	0.16	0.16
CONTINGENCIES	0.22	0.22	0.22	0.22	0.22	0.22
S U B T O T A L	1.66	1.66	1.66	1.66	1.66	1.66

T O T A L : 17.96 18.24 18.66 19.32 20.21 20.51

EVALUATION INDICES

U S D / K W	12975.7	9420.1	6776.9	4504.9	3527.5	3233.6
U S O / K W H	2.111	1.932	1.769	1.629	1.504	1.479

PROJECT NAME : NAINA
 PROJECT ID : 1-022-06-28-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP(MW))	(21.2)	(13.2)	(16.2)	(19.8)	(12.2)	(15.4)	(19.2)	(11.2)	(14.4)	(18.4)
STORAGE DAM	209.14	121.06	151.56	209.14	110.63	144.44	209.14	101.17	137.06	209.14
SPILLWAY	17.45	14.10	15.39	17.45	13.61	15.11	17.45	13.12	14.80	17.45
DIVERSION TUNNEL	17.76	17.76	17.76	17.76	17.76	17.76	17.76	17.76	17.76	17.76
INTAKE (PRESSURE TYPE)	0.82	0.90	0.77	0.66	0.85	0.72	0.61	0.80	0.66	0.55
HEADRACE TUNNEL (PRESSURE)	2.31	2.16	2.15	2.14	2.10	2.09	2.08	2.03	2.02	2.00
SURGE TANK	0.47	0.43	0.43	0.43	0.42	0.41	0.41	0.40	0.39	0.39
PENSTOCK	1.40	1.04	1.19	1.37	1.01	1.17	1.35	0.97	1.13	1.32
(PRESSURE SHAFT)	(0.59)	(0.52)	(0.56)	(0.59)	(0.52)	(0.55)	(0.58)	(0.51)	(0.55)	(0.58)
(STEEL LINER)	(0.81)	(0.52)	(0.64)	(0.78)	(0.49)	(0.61)	(0.77)	(0.46)	(0.59)	(0.75)
POWERHOUSE BUILDING	1.01	0.72	0.82	0.93	0.67	0.78	0.90	0.62	0.74	0.86
(SUPER STRUCTURE)	(0.45)	(0.32)	(0.36)	(0.41)	(0.30)	(0.35)	(0.40)	(0.28)	(0.33)	(0.38)
(SUB STRUCTURE)	(0.56)	(0.40)	(0.45)	(0.52)	(0.37)	(0.43)	(0.50)	(0.35)	(0.41)	(0.48)
MISCELLANEOUS CIVIL WORK	12.52	7.91	9.50	12.49	7.35	9.12	12.49	6.84	8.73	12.47
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	5.64	4.36	4.77	5.21	4.14	4.58	5.04	3.89	4.35	4.83
ENGINEERING/ADMINISTRATION	28.71	21.31	24.85	28.66	19.82	24.32	28.64	18.45	23.46	28.61
CONTINGENCIES	59.45	38.35	45.84	59.25	35.67	44.10	59.17	33.21	42.22	59.08
S U B T O T A L	356.69	230.10	275.04	355.49	214.05	264.61	355.04	199.27	253.32	354.49

ACCESS ROAD (ROAD LENGTH 14.0 KM)

CONSTRUCTION COST	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08
ENGINEERING ADMINISTRATION	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
CONTINGENCIES	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
S U B T O T A L	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99

TRANSMISSION LINE SYSTEM (T/L LENGTH 33.0 KM)

TRANSMISSION LINE	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
CONTINGENCIES	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
S U B T O T A L	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33

T O T A L : 362.01 235.42 280.36 360.81 219.37 269.93 360.37 204.59 256.64 359.82

EVALUATION INDICES

U S D / K W	17058.1	17346.0	17352.6	18229.2	17949.9	17547.8	18762.2	18312.1	17926.2	19545.2
U S D / K W H	3.730	3.792	3.704	3.905	3.778	3.720	3.987	3.806	3.759	4.109

PROJECT NAME : UTIP
 PROJECT ID : 1-022-06-29-0
 TYPE : RUN-OF-RIVER

 * SUMMARY TABLE OF COST ESTIMATE *

 (UNIT : MILLION USD.)

I T E M	C A S E					
	1	2	3	4	5	6
POWER DEVELOPMENT (INST. CAP (MW))	(2.6)	(3.6)	(5.0)	(7.0)	(10.3)	(11.4)
DIVERSION DAM/WEIR	0.57	0.50	0.53	0.67	0.72	0.73
INTAKE (NON-PRESSURE TYPE)	0.12	0.14	0.18	0.22	0.29	0.31
HEADRACE TUNNEL (NON-PRES.)	4.80	4.80	4.80	5.29	6.34	6.67
HEAD TANK	0.10	0.12	0.15	0.19	0.24	0.26
PENSTOCK	1.27	1.34	1.43	1.62	1.95	2.05
(PRESSURE SHAFT)	(0.79)	(0.79)	(0.79)	(0.85)	(0.95)	(0.98)
(STEEL LINER)	(0.48)	(0.55)	(0.64)	(0.77)	(1.00)	(1.07)
POWERHOUSE BUILDING	0.11	0.16	0.22	0.44	0.64	0.71
(SUPER STRUCTURE)	(0.05)	(0.07)	(0.10)	(0.19)	(0.28)	(0.32)
(SUB STRUCTURE)	(0.06)	(0.09)	(0.12)	(0.24)	(0.36)	(0.39)
MISCELLANEOUS CIVIL WORK	0.35	0.36	0.37	0.42	0.51	0.54
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	0.75	1.00	1.36	1.67	2.53	2.89
ENGINEERING/ADMINISTRATION	1.01	1.06	1.14	1.34	1.66	1.77
CONTINGENCIES	1.82	1.92	2.06	2.41	3.00	3.19
S U B T O T A L	10.90	11.49	12.34	14.47	17.97	19.11

ACCESS ROAD (ROAD LENGTH 34.0 KM)	
CONSTRUCTION COST	7.48
ENGINEERING ADMINISTRATION	0.50
CONTINGENCIES	1.62
S U B T O T A L	9.60

TRANSMISSION LINE SYSTEM (T/L LENGTH 45.0 KM)	
TRANSMISSION LINE	1.03
SWITCHYARD AND SUBSTATION	0.27
ENGINEERING/ADMINISTRATION	0.16
CONTINGENCIES	0.22
S U B T O T A L	1.69

T O T A L	22.28	22.87	23.72	25.85	29.36	30.49
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EVALUATION INDICES						
U S D / K W	8452.3	6330.6	4737.1	3680.0	2850.6	2666.3
U S D / K W H	1.374	1.289	1.235	1.221	1.213	1.217

PROJECT NAME : KUMANGA
 PROJECT ID : 1-022-07-30-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP(MW))	(5.8)	(5.1)	(5.8)	(6.6)	(4.8)	(5.6)	(5.5)	(4.5)	(5.3)	(6.4)
STORAGE DAM	86.02	60.42	69.75	86.02	55.44	66.80	86.02	52.20	63.82	86.02
SPILLWAY	10.44	9.08	9.61	10.44	8.84	9.45	10.44	8.58	9.29	10.44
DIVERSION TUNNEL	11.46	11.46	11.46	11.46	11.46	11.46	11.46	11.46	11.46	11.46
INTAKE (PRESSURE TYPE)	0.41	0.44	0.39	0.36	0.42	0.37	0.34	0.40	0.35	0.32
HEADRACE TUNNEL (PRESSURE)	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
SURGE TANK	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15
PENSTOCK	0.60	0.52	0.56	0.60	0.51	0.55	0.60	0.50	0.55	0.60
(PRESSURE SHAFT)	(0.34)	(0.31)	(0.33)	(0.34)	(0.31)	(0.33)	(0.34)	(0.31)	(0.32)	(0.34)
(STEEL LINER)	(0.26)	(0.21)	(0.23)	(0.26)	(0.20)	(0.23)	(0.26)	(0.19)	(0.22)	(0.26)
POWERHOUSE BUILDING	0.35	0.29	0.31	0.34	0.27	0.30	0.33	0.26	0.29	0.32
(SUPER STRUCTURE)	(0.16)	(0.13)	(0.14)	(0.15)	(0.12)	(0.13)	(0.15)	(0.12)	(0.13)	(0.14)
(SUB STRUCTURE)	(0.19)	(0.16)	(0.17)	(0.19)	(0.15)	(0.17)	(0.19)	(0.14)	(0.16)	(0.18)
MISCELLANEOUS CIVIL WORK	5.52	4.16	4.66	5.52	3.95	4.50	5.51	3.72	4.34	5.51
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	2.25	1.95	2.06	2.18	1.87	2.00	2.14	1.79	1.92	2.08
ENGINEERING/ADMINISTRATION	14.77	11.17	12.48	14.75	10.61	12.06	14.74	10.00	11.63	14.73
CONTINGENCIES	26.58	20.11	22.47	26.55	19.09	21.71	26.53	17.99	20.94	26.51
S U B T O T A L	159.48	120.69	134.83	159.31	114.54	130.27	159.19	107.97	125.66	159.05

ACCESS ROAD (ROAD LENGTH 10.0 KM)

CONSTRUCTION COST	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
ENGINEERING ADMINISTRATION	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
CONTINGENCIES	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
S U B T O T A L	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85

TRANSMISSION LINE SYSTEM (T/L LENGTH 40.0 KM)

TRANSMISSION LINE	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
CONTINGENCIES	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
S U B T O T A L	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54

T O T A L	163.87	125.08	139.22	163.70	118.93	134.66	163.58	112.36	130.05	163.44
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EVALUATION INDICES

U S O / K W	24243.1	24436.3	24019.2	24674.0	24555.4	24111.8	25085.9	24746.1	24358.1	25719.2
U S O / K W H	5.342	5.321	5.241	5.390	5.312	5.231	5.449	5.310	5.245	5.546

PROJECT NAME : SUYSUYAN
 PROJECT ID : 1-022-07-31-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(10.0)	(7.6)	(8.7)	(10.0)	(7.2)	(8.4)	(9.8)	(6.7)	(8.0)	(9.6)
STORAGE DAM	97.04	71.02	80.14	97.04	66.19	76.94	97.04	61.31	74.04	97.04
SPILLWAY	11.66	10.29	10.81	11.66	10.01	10.64	11.66	9.73	10.47	11.66
DIVERSION TUNNEL	13.99	13.99	13.99	13.99	13.99	13.99	13.99	13.99	13.99	13.99
INTAKE (PRESSURE TYPE)	0.55	0.65	0.58	0.52	0.62	0.55	0.49	0.59	0.51	0.45
HEADRACE TUNNEL (PRESSURE)	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
SURGE TANK	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.24	0.24	0.24
PENSTOCK	0.87	0.74	0.80	0.87	0.73	0.79	0.87	0.71	0.78	0.86
(PRESSURE SHAFT)	(0.46)	(0.43)	(0.44)	(0.45)	(0.42)	(0.44)	(0.46)	(0.42)	(0.44)	(0.46)
(STEEL LINER)	(0.41)	(0.32)	(0.36)	(0.41)	(0.31)	(0.35)	(0.41)	(0.29)	(0.34)	(0.40)
POWERHOUSE BUILDING	0.53	0.44	0.48	0.52	0.42	0.46	0.51	0.39	0.44	0.50
(SUPER STRUCTURE)	(0.24)	(0.19)	(0.21)	(0.23)	(0.19)	(0.20)	(0.23)	(0.18)	(0.20)	(0.22)
(SUB STRUCTURE)	(0.29)	(0.24)	(0.27)	(0.29)	(0.23)	(0.26)	(0.28)	(0.22)	(0.25)	(0.28)
MISCELLANEOUS CIVIL WORK	6.29	4.92	5.40	6.29	4.66	5.23	6.29	4.40	5.07	6.28
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	3.29	2.88	3.05	3.24	2.77	2.96	3.18	2.65	2.86	3.09
ENGINEERING/ADMINISTRATION	16.93	13.26	14.56	16.92	12.57	14.09	16.90	11.87	13.67	16.88
CONTINGENCIES	30.47	23.88	26.20	30.45	22.63	25.37	30.42	21.36	24.60	30.39
S U B T O T A L	182.81	143.25	157.20	182.69	135.76	152.19	182.52	128.17	147.60	182.31

ACCESS ROAD (ROAD LENGTH 13.0 KM)

CONSTRUCTION COST	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86
ENGINEERING ADMINISTRATION	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
CONTINGENCIES	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
S U B T O T A L	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71

TRANSMISSION LINE SYSTEM (T/L LENGTH 46.0 KM)

TRANSMISSION LINE	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
CONTINGENCIES	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
S U B T O T A L	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72

T O T A L : 188.24 148.68 162.62 188.11 141.19 157.62 187.94 133.60 153.02 187.74

EVALUATION INDICES

U S D / K W	18737.9	19580.7	18757.6	18852.9	18679.1	18839.3	19128.8	19860.6	19088.2	19553.6
U S D / K W H	4.110	4.239	4.090	4.117	4.252	4.084	4.154	4.255	4.107	4.215

PROJECT NAME : DINGRAS
 PROJECT ID : 1-037-00-01-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP(NW))	(6.8)	(4.3)	(5.3)	(6.6)	(4.0)	(5.1)	(6.5)	(3.7)	(4.9)	(6.3)
STORAGE DAM	83.68	45.03	59.90	83.68	40.59	56.73	83.68	36.73	53.61	83.68
SPILLWAY	11.20	8.79	9.81	11.20	8.46	9.62	11.20	8.12	9.42	11.20
DIVERSION TUNNEL	13.92	13.92	13.92	13.92	13.92	13.92	13.92	13.92	13.92	13.92
INTAKE (PRESSURE TYPE)	0.42	0.45	0.39	0.35	0.42	0.37	0.33	0.40	0.34	0.30
HEADRACE TUNNEL (PRESSURE)	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
SURGE TANK	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15
PENSTOCK	0.93	0.79	0.85	0.92	0.78	0.85	0.92	0.76	0.84	0.92
(PRESSURE SHAFT)	(0.53)	(0.50)	(0.52)	(0.53)	(0.50)	(0.51)	(0.53)	(0.49)	(0.51)	(0.53)
(STEEL LINER)	(0.40)	(0.29)	(0.34)	(0.39)	(0.28)	(0.33)	(0.39)	(0.27)	(0.33)	(0.39)
POWERHOUSE BUILDING	0.37	0.26	0.31	0.35	0.25	0.30	0.35	0.24	0.29	0.34
(SUPER STRUCTURE)	(0.16)	(0.12)	(0.14)	(0.16)	(0.11)	(0.13)	(0.15)	(0.11)	(0.13)	(0.15)
(SUB STRUCTURE)	(0.20)	(0.15)	(0.17)	(0.20)	(0.14)	(0.17)	(0.19)	(0.13)	(0.16)	(0.19)
MISCELLANEOUS CIVIL WORK	5.56	3.50	4.29	5.56	3.25	4.12	5.55	3.04	3.96	5.55
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	2.40	1.90	2.09	2.29	1.62	2.04	2.25	1.74	1.97	2.19
ENGINEERING/ADMINISTRATION	14.90	9.42	11.53	14.87	8.77	11.08	14.86	8.21	10.53	14.85
CONTINGENCIES	26.82	16.95	20.76	25.77	15.79	19.94	26.75	14.77	19.13	26.73
S U B T O T A L	160.90	101.71	124.57	160.60	94.76	119.65	160.49	88.62	114.80	160.36

ACCESS ROAD (ROAD LENGTH 5.5 KM)

CONSTRUCTION COST	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
ENGINEERING ADMINISTRATION	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
CONTINGENCIES	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
S U B T O T A L	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57

TRANSMISSION LINE SYSTEM (T/L LENGTH 16.0 KM)

TRANSMISSION LINE	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
CONTINGENCIES	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
S U B T O T A L	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83

T O T A L : 163.29 104.10 126.96 162.99 97.16 122.05 162.89 91.01 117.19 162.75

EVALUATION INDICES

U S D / K W	24160.6	24430.9	23794.1	24842.1	24336.3	23713.0	25156.2	24535.8	23740.6	25632.2
U S D / K W H	4.307	4.699	4.636	4.869	4.650	4.595	4.903	4.648	4.568	4.959

PROJECT NAME : VINTAR
 PROJECT ID : 1-039-00-01-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(2.5)	(1.8)	(2.1)	(2.4)	(1.7)	(2.0)	(2.4)	(1.6)	(2.0)	(2.4)
STORAGE DAM	21.46	14.85	17.74	21.46	13.71	17.20	21.46	12.54	16.58	21.46
SPILLWAY	5.17	4.43	4.76	5.17	4.30	4.70	5.17	4.17	4.63	5.17
DIVERSION TUNNEL	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07
INTAKE (PRESSURE TYPE)	0.28	0.30	0.27	0.25	0.29	0.26	0.23	0.28	0.25	0.22
HEADRACE TUNNEL (PRESSURE)	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
SURGE TANK	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13
PENSTOCK	0.51	0.47	0.49	0.50	0.46	0.48	0.50	0.46	0.48	0.50
(PRESSURE SHAFT)	(0.35)	(0.33)	(0.34)	(0.34)	(0.33)	(0.34)	(0.34)	(0.33)	(0.33)	(0.34)
(STEEL LINER)	(0.16)	(0.14)	(0.15)	(0.16)	(0.13)	(0.15)	(0.16)	(0.13)	(0.14)	(0.16)
POWERHOUSE BUILDING	0.18	0.14	0.16	0.18	0.14	0.16	0.17	0.13	0.15	0.17
(SUPER STRUCTURE)	(0.08)	(0.06)	(0.07)	(0.08)	(0.06)	(0.07)	(0.08)	(0.06)	(0.07)	(0.07)
(SUB STRUCTURE)	(0.10)	(0.08)	(0.09)	(0.10)	(0.08)	(0.09)	(0.10)	(0.07)	(0.08)	(0.09)
MISCELLANEOUS CIVIL WORK	1.91	1.54	1.70	1.91	1.48	1.67	1.91	1.41	1.64	1.91
CONSTRUCTION FACILITIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POWER EQUIPMENT	1.45	1.23	1.32	1.40	1.18	1.29	1.37	1.14	1.25	1.34
ENGINEERING/ADMINISTRATION	5.20	4.20	4.64	5.19	4.03	4.55	5.18	3.85	4.45	5.17
CONTINGENCIES	9.36	7.57	8.35	9.34	7.25	8.19	9.33	6.92	8.01	9.31
S U B T O T A L	56.17	45.39	50.07	56.03	43.48	49.15	55.96	41.54	48.08	55.89

ACCESS ROAD (ROAD LENGTH 1.0 KM)

CONSTRUCTION COST	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
ENGINEERING ADMINISTRATION	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
CONTINGENCIES	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
S U B T O T A L	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29

TRANSMISSION LINE SYSTEM (T/L LENGTH 13.0 KM)

TRANSMISSION LINE	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
CONTINGENCIES	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
S U B T O T A L	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74

T O T A L

	57.19	46.42	51.09	57.05	44.50	50.17	56.98	42.56	49.10	56.91
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EVALUATION INDICES

U S D / K W H	22904.8	26370.1	24325.9	23327.7	26902.5	24675.0	23659.2	27440.9	25022.2	24019.9
U S D / K W H	4.490	5.054	4.704	4.521	5.122	4.743	4.556	5.189	4.781	4.595

PROJECT NAME : TAMDAGAN
 PROJECT ID : 1-039-00-02-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP. (MW))	(17.4)	(11.5)	(14.1)	(17.0)	(10.2)	(13.1)	(16.5)	(8.4)	(11.5)	(15.2)
STORAGE DAM	113.34	74.09	89.15	113.34	63.36	81.24	113.34	52.24	73.81	113.34
SPILLWAY	15.17	12.57	13.64	15.17	11.72	13.11	15.17	10.74	12.54	15.17
DIVERSION TUNNEL	15.73	15.73	15.73	15.73	15.73	15.73	15.73	15.73	15.73	15.73
INTAKE (PRESSURE TYPE)	0.84	0.93	0.81	0.71	0.85	0.72	0.62	0.74	0.61	0.51
HEADRACE TUNNEL (PRESSURE)	1.51	1.46	1.45	1.44	1.41	1.40	1.30	1.31	1.30	1.28
SURGE TANK	0.44	0.42	0.41	0.41	0.40	0.39	0.39	0.36	0.36	0.35
PENSTOCK	0.76	0.59	0.69	0.80	0.57	0.67	0.80	0.53	0.64	0.78
(PRESSURE SHAFT)	(0.36)	(0.31)	(0.34)	(0.37)	(0.31)	(0.34)	(0.37)	(0.30)	(0.33)	(0.37)
(STEEL LINER)	(0.42)	(0.28)	(0.35)	(0.43)	(0.26)	(0.33)	(0.43)	(0.23)	(0.31)	(0.41)
POWERHOUSE BUILDING	0.89	0.67	0.76	0.86	0.61	0.71	0.83	0.51	0.63	0.76
(SUPER STRUCTURE)	(0.40)	(0.30)	(0.34)	(0.38)	(0.27)	(0.32)	(0.37)	(0.23)	(0.28)	(0.34)
(SUB STRUCTURE)	(0.50)	(0.37)	(0.42)	(0.48)	(0.34)	(0.40)	(0.46)	(0.29)	(0.35)	(0.42)
MISCELLANEOUS CIVIL WORK	7.44	5.32	6.13	7.42	4.73	5.70	7.41	4.11	5.28	7.40
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	5.21	4.24	4.61	5.00	3.92	4.37	4.82	3.43	3.94	4.43
ENGINEERING/ADMINISTRATION	20.17	14.50	16.67	20.11	12.91	15.51	20.06	11.21	14.36	19.97
CONTINGENCIES	36.31	26.10	30.01	36.20	23.24	27.91	36.11	20.18	25.84	35.94
S U B T O T A L	217.63	156.60	180.08	217.17	139.44	167.47	216.67	121.10	155.05	215.66

ACCESS ROAD (ROAD LENGTH 7.0 KM)

CONSTRUCTION COST	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
ENGINEERING ADMINISTRATION	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
CONTINGENCIES	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
S U B T O T A L	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

TRANSMISSION LINE SYSTEM (T/L LENGTH 22.0 KM)

TRANSMISSION LINE	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
CONTINGENCIES	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
S U B T O T A L	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

T O T A L : 220.63 159.60 183.08 220.17 142.44 170.47 219.67 124.10 155.05 218.66

EVALUATION INDICES

U S D / K W	12705.4	13820.2	13012.1	12978.6	13964.8	13015.4	13298.6	14853.2	13726.7	14384.9
U S D / K W H	2.543	2.673	2.551	2.563	2.667	2.524	2.598	2.745	2.593	2.735

PROJECT NAME : BULU-1(ILOCOS)
 PROJECT ID : 1-047-00-01-0
 TYPE : RESERVOIR.

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST.CAP(MW))	(20.7)	(13.4)	(16.1)	(19.6)	(11.9)	(14.9)	(18.9)	(9.6)	(12.7)	(16.6)
STORAGE DAM	146.06	90.34	107.20	146.06	76.73	96.43	146.05	62.08	85.85	146.06
SPILLWAY	18.33	15.27	16.30	18.33	14.32	15.65	18.33	13.19	14.97	18.33
DIVERSION TUNNEL	18.18	18.18	18.18	18.18	18.18	18.18	18.18	18.18	18.18	18.18
INTAKE (PRESSURE TYPE)	0.80	0.89	0.72	0.58	0.81	0.64	0.50	0.69	0.52	0.39
HEADRACE TUNNEL (PRESSURE)	1.25	1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
SURGE TANK	0.36	0.33	0.33	0.32	0.32	0.31	0.30	0.27	0.27	0.26
PENSTOCK	1.64	1.25	1.43	1.64	1.19	1.38	1.62	1.08	1.28	1.51
(PRESSURE SHAFT)	(0.68)	(0.61)	(0.65)	(0.59)	(0.60)	(0.65)	(0.68)	(0.58)	(0.62)	(0.66)
(STEEL LINER)	(0.96)	(0.64)	(0.78)	(0.95)	(0.59)	(0.74)	(0.94)	(0.50)	(0.65)	(0.85)
POWERHOUSE BUILDING	0.94	0.68	0.77	0.88	0.62	0.72	0.84	0.51	0.61	0.73
(SUPER STRUCTURE)	(0.42)	(0.30)	(0.34)	(0.39)	(0.20)	(0.32)	(0.37)	(0.23)	(0.27)	(0.32)
(SUB STRUCTURE)	(0.52)	(0.38)	(0.43)	(0.49)	(0.34)	(0.40)	(0.47)	(0.28)	(0.34)	(0.41)
MISCELLANEOUS CIVIL WORK	9.38	6.41	7.30	9.36	5.67	6.72	9.35	4.86	6.14	9.33
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	5.17	4.07	4.41	4.79	3.77	4.16	4.59	3.21	3.62	4.05
ENGINEERING/ADMINISTRATION	24.70	17.32	19.73	24.65	15.35	18.17	24.62	13.15	16.57	24.56
CONTINGENCIES	46.37	31.18	35.51	45.19	27.62	32.70	45.11	23.68	29.83	44.91
S U B T O T A L	272.19	187.08	213.04	271.13	165.74	196.23	270.66	142.07	179.01	269.48
ACCESS ROAD (ROAD LENGTH 2.0 KM)										
CONSTRUCTION COST	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
ENGINEERING ADMINISTRATION	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
CONTINGENCIES	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
S U B T O T A L	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
TRANSMISSION LINE SYSTEM (T/L LENGTH 8.0 KM)										
TRANSMISSION LINE	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
CONTINGENCIES	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
S U B T O T A L	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59
T O T A L	273.35	188.24	214.20	272.29	166.90	197.38	271.82	143.22	180.17	270.64
EVALUATION INDICES										
U S D / K W H	13200.4	14067.7	13272.4	13872.2	14004.6	13204.4	14372.3	14931.0	14226.9	16266.6
U S D / K W H	2.667	2.713	2.600	2.737	2.658	2.554	2.796	2.707	2.643	3.043

PROJECT NAME : BULU-2(1LOCOS)
 PROJECT ID : 1-047-00-02-0
 TYPE : RUN-OF-RIVER

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E					
	1	2	3	4	5	6
POWER DEVELOPMENT (INST. CAP.(MW))	(0.8)	(1.9)	(2.9)	(4.4)	(7.5)	(11.9)
DIVERSION DAM/WEIR	0.48	0.53	0.56	0.61	0.68	0.76
INTAKE (NON-PRESSURE TYPE)	0.08	0.12	0.16	0.21	0.30	0.41
HEADRACE TUNNEL (NON-PRES.)	3.21	3.21	3.21	3.39	4.36	5.79
HEAD TANK	0.06	0.10	0.14	0.18	0.25	0.33
PENSTOCK	0.50	0.53	0.57	0.64	0.80	1.00
(PRESSURE SHAFT)	(0.35)	(0.35)	(0.35)	(0.37)	(0.44)	(0.50)
(STEEL LINER)	(0.15)	(0.18)	(0.22)	(0.26)	(0.36)	(0.50)
POWERHOUSE BUILDING	0.04	0.09	0.20	0.38	0.74	1.57
(SUPER STRUCTURE)	(0.02)	(0.04)	(0.09)	(0.17)	(0.33)	(0.70)
(SUB STRUCTURE)	(0.02)	(0.05)	(0.11)	(0.21)	(0.41)	(0.87)
MISCELLANEOUS CIVIL WORK	0.22	0.23	0.24	0.27	0.36	0.49
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	0.31	0.65	0.97	1.46	2.33	3.54
ENGINEERING/ADMINISTRATION	0.61	0.68	0.76	0.89	1.23	1.74
CONTINGENCIES	1.10	1.23	1.36	1.61	2.21	3.13
S U B T O T A L	6.61	7.38	8.16	9.64	13.25	18.76

ACCESS ROAD (ROAD LENGTH 15.5 KM)

CONSTRUCTION COST	3.41	3.41	3.41	3.41	3.41	3.41
ENGINEERING ADMINISTRATION	0.27	0.27	0.27	0.27	0.27	0.27
CONTINGENCIES	0.74	0.74	0.74	0.74	0.74	0.74
S U B T O T A L	4.42	4.42	4.42	4.42	4.42	4.42

TRANSMISSION LINE SYSTEM (T/L LENGTH 42.0 KM)

TRANSMISSION LINE	0.97	0.97	0.97	0.97	0.97	0.97
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.15	0.15	0.15	0.15	0.15	0.15
CONTINGENCIES	0.21	0.21	0.21	0.21	0.21	0.21
S U B T O T A L	1.60	1.60	1.60	1.60	1.60	1.60

T O T A L : 12.63 13.40 14.18 15.66 19.27 24.78

EVALUATION INDICES

U S D / K W	15684.4	7222.3	4947.6	3549.9	2581.5	2075.7
U S D / K W H	2.502	1.890	1.669	1.524	1.421	1.417

PROJECT NAME : LUNA
 PROJECT ID : 2-005-00-01-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP(MW))	(51.7)	(38.3)	(43.8)	(50.2)	(35.0)	(41.2)	(46.4)	(31.2)	(37.6)	(45.4)
STORAGE DAM	69.41	50.66	57.83	69.41	45.87	55.31	69.41	42.93	52.31	69.41
SPILLWAY	11.76	10.38	11.76	11.76	10.04	10.73	11.76	9.69	10.50	11.76
DIVERSION TUNNEL	7.56	7.56	7.56	7.56	7.56	7.56	7.56	7.56	7.56	7.56
INTAKE (PRESSURE TYPE)	2.33	2.51	2.31	2.14	2.36	2.15	1.97	2.18	1.95	1.76
HEADRACE TUNNEL (PRESSURE)	3.49	3.40	3.38	3.37	3.28	3.26	3.24	3.11	3.09	3.07
SURGE TANK	1.64	1.59	1.58	1.56	1.52	1.50	1.49	1.41	1.39	1.38
PENSTOCK	2.03	1.64	1.80	2.00	1.56	1.74	1.96	1.46	1.65	1.88
(PRESSURE SHAFT)	(0.65)	(0.61)	(0.63)	(0.65)	(0.60)	(0.62)	(0.65)	(0.59)	(0.61)	(0.64)
(STEEL LINER)	(1.37)	(1.03)	(1.18)	(1.35)	(0.96)	(1.12)	(1.31)	(0.87)	(1.04)	(1.24)
POWERHOUSE BUILDING	2.97	2.40	2.62	2.87	2.23	2.48	2.75	2.01	2.27	2.57
(SUPER STRUCTURE)	(1.32)	(1.07)	(1.17)	(1.27)	(0.99)	(1.10)	(1.22)	(0.89)	(1.01)	(1.14)
(SUB STRUCTURE)	(1.65)	(1.33)	(1.46)	(1.59)	(1.24)	(1.38)	(1.53)	(1.12)	(1.26)	(1.43)
MISCELLANEOUS CIVIL WORK	5.06	4.02	4.40	5.03	3.77	4.24	5.01	3.52	4.04	4.97
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	16.16	13.87	14.70	15.59	13.04	13.98	14.98	11.96	12.97	14.05
ENGINEERING/ADMINISTRATION	15.30	12.28	13.39	15.16	11.53	12.87	15.02	10.73	12.22	14.80
CONTINGENCIES	27.54	22.10	24.10	27.29	20.75	23.17	27.03	19.31	21.99	26.64
S U B T O T A L	165.25	132.62	144.62	163.74	124.50	139.00	162.16	115.86	131.93	159.85

ACCESS ROAD (ROAD LENGTH 13.5 KM)

CONSTRUCTION COST	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97
ENGINEERING ADMINISTRATION	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
CONTINGENCIES	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
S U B T O T A L	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85

TRANSMISSION LINE SYSTEM (T/L LENGTH 30.0 KM)

TRANSMISSION LINE	2.04	1.38	2.04	2.04	1.38	2.04	2.04	1.38	1.38	2.04
SWITCHYARD AND SUBSTATION	0.62	0.54	0.62	0.62	0.54	0.62	0.62	0.54	0.54	0.62
ENGINEERING/ADMINISTRATION	0.33	0.24	0.33	0.33	0.24	0.33	0.33	0.24	0.24	0.33
CONTINGENCIES	0.45	0.32	0.45	0.45	0.32	0.45	0.45	0.32	0.32	0.45
S U B T O T A L	3.44	2.48	3.44	3.44	2.48	3.44	3.44	2.48	2.48	3.44

T O T A L : 172.54 136.95 151.91 171.03 130.83 146.30 169.46 122.19 138.27 167.14

EVALUATION INDICES

U S D / K W	3336.8	3630.7	3471.3	3406.5	3733.8	3550.7	3499.8	3920.1	3673.2	3677.4
U S D / K W H	1.404	1.493	1.436	1.413	1.509	1.445	1.429	1.541	1.458	1.466

PROJECT NAME : ZIMISUI
 PROJECT ID : 2-005-00-02-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP(MW))	(64.7)	(40.3)	(51.3)	(62.7)	(36.3)	(48.3)	(60.6)	(32.3)	(45.0)	(58.1)
STORAGE DAM	54.85	31.76	41.97	54.85	28.56	40.15	54.85	25.76	38.40	54.85
SPILLWAY	10.15	8.06	9.07	10.15	7.72	8.90	10.15	7.38	8.72	10.15
DIVERSION TUNNEL	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07
INTAKE (PRESSURE TYPE)	3.45	3.48	3.35	3.24	3.27	3.13	3.01	3.04	2.90	2.77
HEADRACE TUNNEL (PRESSURE)	5.48	5.32	5.31	5.30	5.14	5.12	5.11	4.94	4.92	4.90
SURGE TANK	2.72	2.61	2.60	2.59	2.49	2.48	2.47	2.36	2.35	2.33
PENSTOCK	2.73	2.15	2.41	2.69	2.06	2.34	2.64	1.96	2.26	2.57
(PRESSURE SHAFT)	(1.08)	(1.01)	(1.04)	(1.08)	(0.99)	(1.03)	(1.07)	(0.98)	(1.02)	(1.06)
(STEEL LINER)	(1.65)	(1.15)	(1.37)	(1.61)	(1.06)	(1.31)	(1.57)	(0.98)	(1.24)	(1.52)
POWERHOUSE BUILDING	5.82	4.19	4.91	5.61	3.84	4.64	5.39	3.49	4.35	5.14
(SUPER STRUCTURE)	(2.59)	(1.86)	(2.18)	(2.49)	(1.71)	(2.06)	(2.40)	(1.55)	(1.93)	(2.29)
(SUB STRUCTURE)	(3.23)	(2.33)	(2.73)	(3.12)	(2.13)	(2.58)	(2.99)	(1.94)	(2.41)	(2.86)
MISCELLANEOUS CIVIL WORK	4.76	3.38	3.98	4.72	3.16	3.84	4.68	2.95	3.70	4.64
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	22.63	17.96	19.99	21.85	16.75	19.02	21.03	15.51	17.98	20.11
ENGINEERING/ADMINISTRATION	15.93	11.12	12.96	15.13	10.38	12.46	14.32	9.68	11.96	14.69
CONTINGENCIES	27.60	20.02	23.32	27.24	18.69	22.43	26.86	17.43	21.52	26.45
S U B T O T A L	165.61	120.13	139.93	163.43	112.12	134.57	161.19	104.56	129.12	156.70

ACCESS ROAD (ROAD LENGTH 10.5 KM)

CONSTRUCTION COST	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31
ENGINEERING ADMINISTRATION	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
CONTINGENCIES	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
S U B T O T A L	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99

TRANSMISSION LINE SYSTEM (T/L LENGTH 21.0 KM)

TRANSMISSION LINE	1.43	1.43	1.43	1.43	0.97	1.43	1.43	0.97	1.43	1.43
SWITCHYARD AND SUBSTATION	0.62	0.62	0.62	0.62	0.54	0.62	0.62	0.54	0.62	0.62
ENGINEERING/ADMINISTRATION	0.26	0.26	0.26	0.26	0.19	0.26	0.26	0.19	0.26	0.26
CONTINGENCIES	0.35	0.35	0.35	0.35	0.25	0.35	0.35	0.25	0.35	0.35
S U B T O T A L	2.65	2.65	2.65	2.65	1.95	2.65	2.65	1.95	2.65	2.65

T O T A L	171.26	125.77	145.58	169.08	117.06	140.22	166.83	109.50	134.76	164.34
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EVALUATION INDICES

U S D / K W	2648.1	3117.3	2837.1	2696.5	3225.7	2904.9	2753.2	3392.2	2993.1	2829.0
U S D / K W H	1.124	1.292	1.183	1.129	1.315	1.193	1.135	1.355	1.208	1.147

PROJECT NAME : SISIRITAN
 PROJECT ID : 2-006-00-01-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST.CAP.(MW))	(444.8)	(298.5)	(356.6)	(418.3)	(245.8)	(314.2)	(386.3)	(195.9)	(268.6)	(344.7)
STORAGE DAM	102.38	66.80	82.50	102.38	55.08	76.06	102.38	46.93	69.91	102.38
SPILLWAY	19.91	16.75	16.24	19.91	15.63	17.65	19.91	14.52	17.08	19.91
DIVERSION TUNNEL	21.44	21.44	21.44	21.44	21.44	21.44	21.44	21.44	21.44	21.44
INTAKE (PRESSURE TYPE)	16.41	15.46	14.96	14.51	13.63	13.07	12.58	11.60	11.04	10.55
HEADRAGE TUNNEL (PRESSURE)	26.69	24.11	24.07	24.03	22.35	22.31	22.25	19.39	19.33	19.25
SURGE TANK	14.22	13.00	12.94	12.89	11.72	11.66	11.59	10.18	10.11	10.04
PENSTOCK	22.99	17.34	19.25	21.32	15.55	17.79	20.22	13.04	15.38	17.93
(PRESSURE SHAFT)	(7.18)	(6.16)	(6.30)	(6.44)	(5.99)	(6.16)	(6.32)	(5.17)	(5.34)	(5.50)
(STEEL LINER)	(15.81)	(11.18)	(12.94)	(14.88)	(9.57)	(11.63)	(13.90)	(7.87)	(10.04)	(12.44)
POWERHOUSE BUILDING	73.20	50.94	57.32	63.70	43.21	50.84	58.28	32.64	40.47	47.71
(SUPER STRUCTURE)	(32.53)	(22.64)	(25.48)	(28.31)	(19.20)	(22.60)	(25.90)	(14.59)	(17.99)	(21.20)
(SUB STRUCTURE)	(40.67)	(28.30)	(31.84)	(35.39)	(24.00)	(28.24)	(32.38)	(18.24)	(22.49)	(26.51)
MISCELLANEOUS CIVIL WORK	14.86	11.29	12.54	14.01	9.98	11.54	13.43	8.50	10.24	12.46
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	113.82	91.37	98.89	106.14	79.84	89.05	97.56	67.75	77.94	86.99
ENGINEERING/ADMINISTRATION	36.65	31.94	33.63	35.47	29.87	32.09	34.48	27.42	30.06	32.96
CONTINGENCIES	92.51	72.09	79.16	87.16	63.86	72.70	82.83	54.72	64.60	76.33
S U B T O T A L	555.09	432.52	474.94	522.95	383.16	436.19	496.96	328.32	387.62	457.97

ACCESS ROAD (ROAD LENGTH 0. KM)

CONSTRUCTION COST	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ENGINEERING ADMINISTRATION	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CONTINGENCIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
S U B T O T A L	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

TRANSMISSION LINE SYSTEM (T/L LENGTH 44.4 KM)

TRANSMISSION LINE	9.77	9.77	9.77	9.77	9.77	9.77	9.77	4.93	9.77	9.77
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
ENGINEERING/ADMINISTRATION	1.34	1.34	1.34	1.34	1.34	1.34	1.34	0.74	1.34	1.34
CONTINGENCIES	1.81	1.81	1.81	1.81	1.81	1.81	1.81	0.99	1.81	1.81
S U B T O T A L	13.88	13.88	13.88	13.88	13.88	13.88	13.88	7.62	13.88	13.88

T O T A L : 568.97 446.40 488.81 536.83 397.03 450.07 510.84 335.94 401.50 471.85

EVALUATION INDICES

U S D / K W	1279.0	1495.2	1370.6	1283.4	1615.4	1432.5	1322.3	1715.2	1495.0	1369.0
U S D / K W H	0.736	0.816	0.757	0.714	0.841	0.758	0.706	0.838	0.747	0.691

PROJECT NAME : BUBULAYAN
 PROJECT ID : 2-006-00-02-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP(MWP))	(577.1)	(487.9)	(528.5)	(575.2)	(470.4)	(516.7)	(571.9)	(451.0)	(501.7)	(564.4)
STORAGE DAM	219.45	184.67	198.34	219.45	175.46	191.81	219.45	168.19	185.45	219.45
SPILLWAY	34.58	32.39	33.26	34.58	31.81	32.86	34.58	31.22	32.44	34.58
DIVERSION TUNNEL	29.35	29.35	29.35	29.35	29.35	29.35	29.35	29.35	29.35	29.35
INTAKE (PRESSURE TYPE)	12.07	13.10	12.29	11.51	12.76	11.83	10.98	12.38	11.35	10.45
HEADRACE TUNNEL (PRESSURE)	26.28	26.04	25.98	25.91	25.70	25.62	25.54	25.26	25.18	25.09
SURGE TANK	9.77	9.72	9.64	9.57	9.54	9.45	9.38	9.31	9.23	9.14
PENSTOCK	34.12	29.09	31.50	34.24	28.34	31.07	34.27	27.49	30.47	34.06
(PRESSURE SHAFT)	(6.80)	(6.48)	(6.65)	(6.82)	(6.45)	(6.64)	(6.83)	(6.41)	(6.62)	(6.82)
(STEEL LINER)	(27.32)	(22.61)	(24.85)	(27.42)	(21.89)	(24.43)	(27.44)	(21.08)	(23.85)	(27.24)
POWERHOUSE BUILDING	58.48	52.07	54.86	57.97	50.50	53.69	57.37	48.72	52.23	56.39
(SUPER STRUCTURE)	(25.99)	(23.14)	(24.38)	(25.77)	(22.44)	(23.66)	(25.50)	(21.65)	(23.21)	(25.06)
(SUB STRUCTURE)	(32.49)	(28.93)	(30.48)	(32.21)	(28.06)	(29.83)	(31.87)	(27.06)	(29.02)	(31.33)
MISCELLANEOUS CIVIL WORK	21.20	18.82	19.75	21.13	18.22	19.28	21.05	17.60	18.79	20.93
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	102.89	94.67	98.00	101.63	92.35	96.17	100.47	89.66	93.88	98.75
ENGINEERING/ADMINISTRATION	41.88	39.45	40.44	41.77	38.83	39.94	41.55	38.13	39.40	41.48
CONTINGENCIES	117.97	105.87	110.68	117.42	102.77	108.22	116.82	99.48	106.55	115.93
S U B T O T A L	707.84	635.25	684.09	704.53	616.62	649.31	700.90	596.77	633.32	695.60

ACCESS ROAD (ROAD LENGTH 2.0 KM)

CONSTRUCTION COST	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
ENGINEERING ADMINISTRATION	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
CONTINGENCIES	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
S U B T O T A L	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57

TRANSMISSION LINE SYSTEM (T/L LENGTH 56.0 KM)

TRANSMISSION LINE	25.70	25.70	25.70	25.70	25.70	25.70	25.70	25.70	25.70	25.70
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
ENGINEERING/ADMINISTRATION	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33
CONTINGENCIES	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
S U B T O T A L	34.50	34.50	34.50	34.50	34.50	34.50	34.50	34.50	34.50	34.50

T O T A L : 742.91 670.31 699.16 739.60 651.69 684.37 735.96 614.52 668.39 730.67

EVALUATION INDICES

U S D / K W	1287.3	1373.9	1322.8	1285.8	1385.4	1324.5	1286.8	1362.6	1332.2	1294.7
U S D / K W H	0.427	0.453	0.436	0.424	0.454	0.435	0.423	0.444	0.435	0.423

PROJECT NAME : BULU
 PROJECT ID : 2-006-00-03-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP. (MW))	(408.0)	(304.6)	(349.9)	(404.3)	(287.7)	(338.3)	(398.8)	(271.9)	(325.1)	(369.7)
STORAGE DAM	136.46	101.11	113.85	136.46	94.63	109.57	136.46	89.13	106.02	136.46
SPILLWAY	26.98	23.85	25.05	26.98	23.22	24.67	26.98	22.64	24.32	26.98
DIVERSION TUNNEL	24.37	24.37	24.37	24.37	24.37	24.37	24.37	24.37	24.37	24.37
INTAKE (PRESSURE TYPE)	10.68	11.75	10.91	10.17	11.33	10.46	9.67	10.84	9.90	9.10
HEADRACE TUNNEL (PRESSURE)	15.14	14.96	14.92	14.87	14.66	13.73	13.67	13.42	13.38	13.32
SURGE TANK	8.13	8.09	8.00	7.92	7.86	7.71	7.62	7.53	7.44	7.35
PENSTOCK	13.19	9.91	11.43	13.24	9.56	10.66	12.61	8.72	10.42	12.49
(PRESSURE SHAFT)	(3.28)	(2.91)	(3.11)	(3.30)	(2.89)	(2.65)	(2.83)	(2.45)	(2.64)	(2.83)
(STEEL LINER)	(9.91)	(7.00)	(8.32)	(9.94)	(6.67)	(8.01)	(9.78)	(6.27)	(7.78)	(9.66)
POWERHOUSE BUILDING	45.33	37.10	40.64	44.68	35.39	35.21	39.22	30.12	33.88	38.15
(SUPER STRUCTURE)	(20.15)	(16.49)	(18.06)	(19.86)	(15.73)	(15.65)	(17.43)	(13.39)	(15.06)	(16.96)
(SUB STRUCTURE)	(25.18)	(20.61)	(22.58)	(24.82)	(19.66)	(19.56)	(21.79)	(16.73)	(18.82)	(21.19)
MISCELLANEOUS CIVIL WORK	14.01	11.56	12.46	13.93	11.05	11.82	13.53	10.34	11.49	13.41
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	85.10	74.06	78.69	83.80	71.28	76.53	82.20	68.39	73.98	80.02
ENGINEERING/ADMINISTRATION	34.47	31.33	32.54	34.33	30.52	31.75	33.84	28.66	31.25	33.61
CONTINGENCIES	82.77	69.62	74.57	82.15	66.80	71.29	80.04	63.03	69.29	79.05
S U B T O T A L	486.64	417.69	447.45	492.90	400.79	427.75	480.21	378.20	415.74	474.31

ACCESS ROAD (ROAD LENGTH 4.0 KM)

CONSTRUCTION COST	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
ENGINEERING ADMINISTRATION	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
CONTINGENCIES	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
S U B T O T A L	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14

TRANSMISSION LINE SYSTEM (T/L LENGTH 65.5 KM)

TRANSMISSION LINE	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
ENGINEERING/ADMINISTRATION	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
CONTINGENCIES	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59
S U B T O T A L	19.88	19.88	19.88	19.88	19.88	19.88	19.88	19.88	19.88	19.88

T O T A L : 517.66 438.72 468.47 513.92 421.82 448.78 501.24 399.22 436.77 495.34

EVALUATION INDICES

U S D / K W	1268.3	1440.2	1338.9	1271.2	1466.0	1326.6	1256.7	1468.4	1343.3	1271.1
U S D / K W H	0.416	0.468	0.436	0.415	0.472	0.429	0.407	0.468	0.430	0.408

PROJECT NAME : NABARAYAN
 PROJECT ID : 2-006-01-04-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(304.0)	(222.4)	(253.7)	(291.5)	(196.6)	(231.3)	(274.1)	(170.7)	(207.7)	(253.7)
STORAGE DAM	143.26	105.09	119.16	143.26	94.88	111.99	143.26	85.24	105.22	143.26
SPILLWAY	24.09	21.23	22.35	24.09	20.37	21.80	24.09	19.48	21.24	24.09
DIVERSION TUNNEL	16.30	16.30	16.30	16.30	16.30	16.30	16.30	16.30	16.30	16.30
INTAKE (PRESSURE TYPE)	8.11	8.55	7.91	7.35	7.83	7.13	6.55	7.07	6.33	5.75
HEADRACE TUNNEL (PRESSURE)	14.54	12.86	12.82	12.78	12.15	12.11	12.06	11.38	11.33	11.28
SURGE TANK	6.38	6.01	5.95	5.90	5.56	5.50	5.45	5.08	5.02	4.97
PENSTOCK	7.56	5.07	5.96	7.01	4.66	5.63	6.81	4.24	5.26	6.52
(PRESSURE SHAFT)	(1.95)	(1.36)	(1.48)	(1.59)	(1.33)	(1.46)	(1.59)	(1.30)	(1.44)	(1.58)
(STEEL LINER)	(5.62)	(3.71)	(4.48)	(5.42)	(3.33)	(4.17)	(5.22)	(2.95)	(3.81)	(4.94)
POWERHOUSE BUILDING	30.17	20.81	22.69	24.86	18.67	20.77	23.22	16.48	18.75	21.38
(SUPER STRUCTURE)	(13.41)	(9.25)	(10.08)	(11.05)	(8.30)	(9.23)	(10.32)	(7.33)	(8.33)	(9.50)
(SUB STRUCTURE)	(16.76)	(11.56)	(12.61)	(13.81)	(10.37)	(11.54)	(12.90)	(9.16)	(10.42)	(11.88)
MISCELLANEOUS CIVIL WORK	12.52	9.80	10.66	12.08	9.02	10.06	11.89	8.26	9.47	11.68
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	65.19	55.18	58.45	62.10	50.36	54.09	58.24	45.38	49.43	53.92
ENGINEERING/ADMINISTRATION	31.92	28.27	29.48	31.28	27.04	28.53	30.86	25.77	27.55	30.40
CONTINGENCIES	72.01	57.83	62.34	69.40	53.37	58.78	67.74	48.94	55.18	65.91
S U B T O T A L	432.04	346.99	374.06	416.40	320.24	352.69	406.46	293.62	331.07	395.43

ACCESS ROAD (ROAD LENGTH 6.0 KM)

CONSTRUCTION COST	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
ENGINEERING ADMINISTRATION	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
CONTINGENCIES	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
S U B T O T A L	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71

TRANSMISSION LINE SYSTEM (T/L LENGTH 75.0 KM)

TRANSMISSION LINE	16.50	8.32	16.50	16.50	8.32	16.50	16.50	8.32	8.32	16.50
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
ENGINEERING/ADMINISTRATION	2.18	1.16	2.18	2.18	1.16	2.18	2.18	1.16	1.16	2.18
CONTINGENCIES	2.95	1.57	2.95	2.95	1.57	2.95	2.95	1.57	1.57	2.95
S U B T O T A L	22.59	12.01	22.59	22.59	12.01	22.59	22.59	12.01	12.01	22.59

T O T A L

	456.34	360.71	398.36	440.70	333.96	376.99	430.76	307.34	344.80	419.73
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EVALUATION INDICES

U S D / K W	1501.3	1622.1	1570.0	1511.8	1699.1	1629.7	1571.7	1800.1	1660.1	1654.1
U S D / K W H	0.618	0.647	0.631	0.610	0.655	0.638	0.619	0.672	0.629	0.631

PROJECT NAME : DIBAGAT
 PROJECT ID : 2-006-01-05-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP. (MW))	(297.7)	(254.1)	(275.9)	(301.7)	(244.7)	(270.0)	(301.1)	(235.5)	(263.8)	(299.5)
STORAGE DAM	156.43	131.74	140.19	156.43	125.19	135.59	156.43	119.24	130.99	156.43
SPILLWAY	29.28	27.45	28.13	29.28	26.93	27.76	29.28	26.40	27.39	29.28
DIVERSION TUNNEL	15.64	15.64	15.64	15.64	15.64	15.64	15.64	15.64	15.64	15.64
INTAKE (PRESSURE TYPE)	7.88	8.09	7.58	7.12	7.89	7.29	6.77	7.68	7.02	6.45
HEADRACE TUNNEL (PRESSURE)	10.31	10.11	10.09	10.07	9.98	9.96	9.93	9.85	9.82	9.79
SURGE TANK	4.93	4.83	4.79	4.75	4.74	4.69	4.65	4.65	4.60	4.55
PENSTOCK	7.58	6.29	7.11	8.06	6.12	7.08	8.20	5.96	7.02	8.29
(PRESSURE SHAFT)	(1.64)	(1.50)	(1.61)	(1.72)	(1.50)	(1.63)	(1.75)	(1.49)	(1.63)	(1.77)
(STEEL LINER)	(5.94)	(4.78)	(5.50)	(6.33)	(4.62)	(5.45)	(6.45)	(4.47)	(5.39)	(6.52)
POWERHOUSE BUILDING	23.70	21.13	22.30	23.65	20.48	21.85	23.47	19.84	21.37	23.23
(SUPER STRUCTURE)	(10.53)	(9.39)	(9.91)	(10.51)	(9.10)	(9.71)	(10.43)	(8.82)	(9.50)	(10.32)
(SUB STRUCTURE)	(13.16)	(11.74)	(12.39)	(13.14)	(11.38)	(12.14)	(13.04)	(11.02)	(11.87)	(12.91)
MISCELLANEOUS CIVIL WORK	12.79	11.26	11.78	12.75	10.85	11.49	12.72	10.46	11.19	12.68
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	57.67	53.05	54.99	57.17	51.73	54.00	56.63	50.43	52.98	55.99
ENGINEERING/ADMINISTRATION	31.82	29.88	30.58	31.76	29.33	30.19	31.69	28.80	29.79	31.52
CONTINGENCIES	71.61	63.89	66.64	71.34	61.77	65.11	71.08	59.79	63.56	70.80
S U B T O T A L	429.64	383.35	399.82	428.02	370.64	390.64	426.49	358.75	381.37	424.77

ACCESS ROAD (ROAD LENGTH 3.6 KM)

CONSTRUCTION COST	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
ENGINEERING ADMINISTRATION	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
CONTINGENCIES	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
S U B T O T A L	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03

TRANSMISSION LINE SYSTEM (T/L LENGTH 75.6 KM)

TRANSMISSION LINE	16.63	16.63	16.63	16.63	16.63	16.63	16.63	16.63	16.63	16.63
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
ENGINEERING/ADMINISTRATION	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
CONTINGENCIES	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97
S U B T O T A L	22.76	22.76	22.76	22.76	22.76	22.76	22.76	22.76	22.76	22.76

T O T A L : 453.43 407.14 423.61 451.80 394.43 414.43 450.27 382.54 405.16 448.56

EVALUATION INDICES

U S D / K W	1523.2	1602.2	1535.6	1497.5	1611.6	1535.0	1495.3	1624.1	1536.0	1497.5
U S D / K W H	0.509	0.530	0.509	0.497	0.531	0.506	0.494	0.532	0.504	0.492

PROJECT NAME : AGBULU
 PROJECT ID : 2-006-01-06-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST.CAP(MW))	(216.4)	(168.6)	(189.2)	(215.5)	(160.6)	(183.5)	(213.4)	(151.9)	(177.2)	(210.1)
STORAGE DAM	91.68	70.17	77.13	91.68	66.12	73.91	91.68	61.58	71.20	91.68
SPILLWAY	24.99	22.50	23.36	24.99	21.98	22.99	24.99	21.39	22.63	24.99
DIVERSON TUNNEL	16.37	16.37	16.37	16.37	16.37	16.37	16.37	16.37	16.37	16.37
INTAKE (PRESSURE TYPE)	5.81	6.48	5.97	5.54	6.28	5.71	5.26	6.05	5.45	4.97
HEADRAGE TUNNEL (PRESSURE)	8.73	9.65	8.63	8.61	8.51	8.48	8.46	8.34	8.31	8.28
SURGE TANK	3.98	3.96	3.93	3.89	3.87	3.83	3.80	3.76	3.72	3.69
PENSTOCK	4.98	3.61	4.26	5.05	3.50	4.21	5.09	3.37	4.14	5.10
(PRESSURE SHAFT)	(1.05)	(0.89)	(0.98)	(1.07)	(0.89)	(0.98)	(1.08)	(0.88)	(0.99)	(1.09)
(STEEL LINER)	(3.93)	(2.72)	(3.28)	(3.99)	(2.61)	(3.22)	(4.01)	(2.49)	(3.15)	(4.02)
POWERHOUSE BUILDING	14.52	12.25	13.21	14.39	11.76	12.84	14.18	11.23	12.43	13.90
(SUPER STRUCTURE)	(5.45)	(5.44)	(5.87)	(6.40)	(5.23)	(5.71)	(6.30)	(4.99)	(5.52)	(6.18)
(SUB STRUCTURE)	(8.07)	(6.80)	(7.34)	(7.99)	(6.54)	(7.13)	(7.88)	(6.24)	(6.90)	(7.72)
MISCELLANEOUS CIVIL WORK	8.55	7.20	7.64	8.53	6.92	7.42	8.49	6.60	7.21	8.45
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	45.20	40.17	42.25	44.72	38.89	41.22	44.02	37.45	40.06	43.15
ENGINEERING/ADMINISTRATION	26.13	23.92	24.74	26.07	23.02	24.37	25.98	22.02	23.94	25.87
CONTINGENCIES	50.19	43.06	45.50	49.97	41.44	44.27	49.66	39.63	43.09	49.29
S U B T O T A L	301.15	258.36	273.01	299.82	248.66	265.63	297.99	237.79	258.56	295.76

ACCESS ROAD (ROAD LENGTH 6.5 KM)

CONSTRUCTION COST	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43
ENGINEERING ADMINISTRATION	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
CONTINGENCIES	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
S U B T O T A L	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85

TRANSMISSION LINE SYSTEM (T/L LENGTH 78.6 KM)

TRANSMISSION LINE	8.72	8.72	8.72	8.72	8.72	8.72	8.72	8.72	8.72	8.72
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
ENGINEERING/ADMINISTRATION	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
CONTINGENCIES	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63
S U B T O T A L	12.53	12.53	12.53	12.53	12.53	12.53	12.53	12.53	12.53	12.53

T O T A L : 315.53 272.74 287.39 314.21 263.04 280.01 312.37 252.18 272.94 310.14

EVALUATION INDICES

U S D / K W	1458.2	1617.8	1518.6	1457.8	1637.6	1525.9	1464.1	1860.3	1540.4	1476.3
U S D / K W H	0.481	0.529	0.498	0.479	0.532	0.497	0.478	0.535	0.498	0.479

PROJECT NAME : AOAN
 PROJECT ID : 2-006-01-07-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(193.7)	(189.3)	(182.9)	(197.9)	(158.6)	(176.4)	(196.8)	(145.7)	(166.5)	(190.9)
STORAGE DAM	220.60	196.81	205.84	220.60	183.88	195.41	220.60	169.18	185.34	220.60
SPILLWAY	23.37	22.33	22.72	23.37	21.70	22.27	23.37	20.98	21.78	23.37
DIVERSION TUNNEL	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99	11.99
INTAKE (PRESSURE TYPE)	5.29	5.50	5.07	4.63	5.25	4.67	4.09	4.94	4.27	3.60
HEADRACE TUNNEL (PRESSURE)	9.88	9.69	9.67	9.64	9.43	9.41	9.36	9.09	9.06	8.99
SURGE TANK	3.29	3.21	3.19	3.16	3.10	3.07	3.03	2.94	2.91	2.86
PENSTOCK	6.13	5.24	5.87	6.57	5.00	5.83	6.77	4.71	5.65	6.76
(PRESSURE SHAFT)	(1.33)	(1.23)	(1.32)	(1.39)	(1.22)	(1.33)	(1.43)	(1.21)	(1.33)	(1.45)
(STEEL LINER)	(4.81)	(4.01)	(4.56)	(5.18)	(3.78)	(4.50)	(5.34)	(3.50)	(4.32)	(5.31)
POWERHOUSE BUILDING	12.28	11.12	11.70	12.32	10.52	11.28	12.10	9.77	10.67	11.64
(SUPER STRUCTURE)	(5.46)	(4.94)	(5.20)	(5.47)	(4.67)	(5.01)	(5.38)	(4.34)	(4.74)	(5.17)
(SUB STRUCTURE)	(6.82)	(6.18)	(6.50)	(6.84)	(5.84)	(6.27)	(6.72)	(5.43)	(5.93)	(6.47)
MISCELLANEOUS CIVIL WORK	14.64	13.29	13.80	14.61	12.53	13.20	14.56	11.68	12.58	14.49
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	37.89	35.21	36.43	37.67	33.63	35.23	36.88	31.63	33.52	35.47
ENGINEERING/ADMINISTRATION	32.80	31.21	31.83	32.76	30.27	31.10	32.67	29.18	30.32	32.52
CONTINGENCIES	75.63	69.12	71.63	75.47	65.42	68.69	75.08	61.22	65.62	74.46
S U B T O T A L	453.79	414.73	429.76	452.79	392.52	412.15	450.49	387.31	393.73	446.75

ACCESS ROAD (ROAD LENGTH 18.0 KM)

CONSTRUCTION COST	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96
ENGINEERING ADMINISTRATION	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
CONTINGENCIES	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
S U B T O T A L	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.13

TRANSMISSION LINE SYSTEM (T/L LENGTH 49.0 KM)

TRANSMISSION LINE	5.44	5.44	5.44	5.44	5.44	5.44	5.44	5.44	5.44	5.44
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
ENGINEERING/ADMINISTRATION	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
CONTINGENCIES	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08
S U B T O T A L	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28

T O T A L : 467.21 428.14 443.17 466.20 405.93 425.56 463.90 380.72 407.14 460.16

EVALUATION INDICES

U S D / K W	2412.1	2529.4	2422.8	2356.1	2560.1	2412.3	2356.8	2613.0	2445.5	2410.3
U S D / K W H	1.603	1.662	1.594	1.551	1.660	1.569	1.534	1.663	1.565	1.544

PROJECT NAME : APAYAO
 PROJECT ID : 2-006-01-08-0
 TYPE : RUN-OF-RIVER

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E				
	1	2	3	4	5
POWER DEVELOPMENT (INST. CAP (MW))	(2.4)	(5.4)	(9.6)	(14.5)	(15.7)
DIVERSION DAM/WEIR	0.46	0.52	0.58	0.63	0.64
INTAKE (NON-PRESSURE TYPE)	0.13	0.22	0.32	0.43	0.45
HEADRACE TUNNEL (NON-PRES.)	5.31	5.80	7.78	9.91	10.39
HEAD TANK	0.11	0.19	0.26	0.34	0.36
PENSTOCK	0.48	0.59	0.76	0.93	0.98
(PRESSURE SHAFT)	(0.31)	(0.33)	(0.39)	(0.44)	(0.45)
(STEEL LINER)	(0.18)	(0.26)	(0.37)	(0.50)	(0.53)
POWERHOUSE BUILDING	0.11	0.25	0.65	1.19	1.29
(SUPER STRUCTURE)	(0.05)	(0.11)	(0.29)	(0.53)	(0.57)
MISCELLANEOUS CIVIL WORK	(0.06)	(0.14)	(0.36)	(0.66)	(0.71)
CONSTRUCTION FACILITIES	0.33	0.38	0.52	0.67	0.71
POWER EQUIPMENT	0.76	1.55	2.75	3.96	4.25
ENGINEERING/ADMINISTRATION	0.96	1.20	1.70	2.26	2.38
CONTINGENCIES	1.73	2.16	3.06	4.06	4.29
S U B T O T A L	10.39	12.97	18.38	24.38	25.74

ACCESS ROAD (ROAD LENGTH 32.4 KM)

CONSTRUCTION COST	7.13	7.13	7.13	7.13	7.13
ENGINEERING ADMINISTRATION	0.57	0.57	0.57	0.57	0.57
CONTINGENCIES	1.54	1.54	1.54	1.54	1.54
S U B T O T A L	9.24	9.24	9.24	9.24	9.24

TRANSMISSION LINE SYSTEM (T/L LENGTH 39.4 KM)

TRANSMISSION LINE	0.91	0.91	0.91	0.91	0.91
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.15	0.15	0.15	0.15	0.15
CONTINGENCIES	0.20	0.20	0.20	0.20	0.20
S U B T O T A L	1.52	1.52	1.52	1.52	1.52

T O T A L : 21.15 23.73 29.14 35.14 36.50

EVALUATION INDICES

U S D / K W	8906.8	4389.1	3030.3	2430.7	2330.1
U S D / K W H	1.424	1.170	1.075	1.067	1.071

PROJECT NAME : ZINUNDUNGAN
 PROJECT ID : 2-008-01-01-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(5.6)	(4.6)	(5.0)	(5.6)	(4.0)	(4.6)	(5.4)	(3.4)	(4.2)	(5.0)
STORAGE DAM	13.69	10.90	11.87	13.69	9.84	11.11	13.69	8.46	10.42	13.69
SPILLWAY	6.82	6.26	6.47	6.82	5.98	6.31	6.82	5.64	6.13	6.82
DIVERSION TUNNEL	7.54	7.54	7.54	7.54	7.54	7.54	7.54	7.54	7.54	7.54
INTAKE (PRESSURE TYPE)	0.52	0.57	0.53	0.50	0.52	0.47	0.44	0.46	0.41	0.38
HEADRACE TUNNEL (PRESSURE)	1.02	1.02	1.01	1.01	0.97	0.96	0.96	0.96	0.96	0.96
SURGE TANK	0.33	0.33	0.33	0.33	0.31	0.31	0.31	0.29	0.28	0.28
PENSTOCK	0.69	0.64	0.66	0.68	0.62	0.65	0.67	0.59	0.62	0.65
(PRESSURE SHAFT)	(0.43)	(0.42)	(0.42)	(0.43)	(0.41)	(0.42)	(0.42)	(0.40)	(0.41)	(0.41)
(STEEL LINER)	(0.26)	(0.23)	(0.24)	(0.24)	(0.26)	(0.23)	(0.25)	(0.19)	(0.22)	(0.24)
POWERHOUSE BUILDING	0.39	0.34	0.36	0.39	0.31	0.34	0.37	0.27	0.30	0.34
(SUPER STRUCTURE)	(0.17)	(0.15)	(0.16)	(0.17)	(0.14)	(0.15)	(0.17)	(0.12)	(0.14)	(0.15)
(SUB STRUCTURE)	(0.22)	(0.19)	(0.20)	(0.22)	(0.17)	(0.19)	(0.21)	(0.15)	(0.17)	(0.19)
MISCELLANEOUS CIVIL WORK	1.55	1.38	1.44	1.55	1.30	1.38	1.54	1.21	1.33	1.53
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	2.85	2.59	2.70	2.82	2.38	2.53	2.69	2.12	2.30	2.49
ENGINEERING/ADMINISTRATION	4.42	3.95	4.11	4.42	3.72	3.95	4.38	3.44	3.79	4.34
CONTINGENCIES	7.96	7.10	7.41	7.95	6.70	7.11	7.88	6.19	6.82	7.80
S U B T O T A L	47.77	42.61	44.44	47.70	40.21	42.66	47.30	37.16	40.91	46.83
ACCESS ROAD (ROAD LENGTH 3.5 KM)										
CONSTRUCTION COST	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77
ENGINEERING ADMINISTRATION	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
CONTINGENCIES	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
S U B T O T A L	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
TRANSMISSION LINE SYSTEM (T/L LENGTH 47.0 KM)										
TRANSMISSION LINE	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
CONTINGENCIES	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
S U B T O T A L	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
T O T A L	50.52	45.36	47.18	50.45	42.95	45.41	50.04	39.91	43.66	49.57
EVALUATION INDICES										
U S D / K W	3972.7	9937.6	9386.8	9000.6	10650.2	9766.9	9266.9	11666.3	10457.0	9824.7
U S D / K W H	1.966	2.170	2.052	1.968	2.292	2.107	2.000	2.456	2.209	2.076

PROJECT NAME : CAPISAYAN
 PROJECT ID : 2-008-02-0-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(3.3)	(3.2)	(3.3)	(3.3)	(3.3)	(3.3)	(3.0)	(3.1)	(3.2)	(3.3)
STORAGE DAM	22.92	22.36	22.44	22.52	22.70	22.92	20.81	21.10	22.31	22.92
SPILLWAY	6.45	6.40	6.40	6.41	6.43	6.45	6.23	6.26	6.39	6.45
DIVERSION TUNNEL	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25
INTAKE (PRESSURE TYPE)	0.37	0.36	0.36	0.35	0.35	0.35	0.34	0.33	0.32	0.32
HEADRACE TUNNEL (PRESSURE)	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
SURGE TANK	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19
PENSTOCK	0.46	0.45	0.45	0.45	0.46	0.46	0.44	0.45	0.45	0.45
(PRESSURE SHAFT)	(0.30)	(0.30)	(0.30)	(0.30)	(0.30)	(0.30)	(0.30)	(0.30)	(0.30)	(0.30)
(STEEL LINER)	(0.15)	(0.15)	(0.15)	(0.15)	(0.15)	(0.15)	(0.14)	(0.15)	(0.15)	(0.15)
POWERHOUSE BUILDING	0.24	0.24	0.24	0.24	0.24	0.24	0.22	0.23	0.23	0.23
(SUPER STRUCTURE)	(0.11)	(0.11)	(0.11)	(0.11)	(0.11)	(0.11)	(0.10)	(0.10)	(0.10)	(0.10)
(SUB STRUCTURE)	(0.13)	(0.13)	(0.13)	(0.13)	(0.13)	(0.13)	(0.12)	(0.13)	(0.13)	(0.13)
MISCELLANEOUS CIVIL WORK	1.87	1.84	1.85	1.85	1.86	1.87	1.75	1.77	1.84	1.87
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	1.89	1.86	1.86	1.86	1.87	1.87	1.77	1.78	1.81	1.82
ENGINEERING/ADMINISTRATION	5.16	5.07	5.08	5.09	5.12	5.15	4.83	4.87	5.05	5.14
CONTINGENCIES	9.28	9.12	9.15	9.17	9.21	9.27	8.69	8.77	9.09	9.25
S U B T O T A L	55.58	54.74	54.87	55.00	55.28	55.63	52.13	52.59	54.53	55.49

ACCESS ROAD (ROAD LENGTH 13.0 KM)

CONSTRUCTION COST	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86
ENGINEERING ADMINISTRATION	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
CONTINGENCIES	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
S U B T O T A L	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71

TRANSMISSION LINE SYSTEM (T/L LENGTH 32.0 KM)

TRANSMISSION LINE	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
CONTINGENCIES	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
S U B T O T A L	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30

T O T A L : 60.69 59.75 59.88 60.01 60.29 60.64 57.14 57.60 59.54 60.50

EVALUATION INDICES

U S D / K W	18310.6	18446.0	18397.6	18349.8	18320.5	18296.7	18826.1	18704.1	18599.9	18583.0
U S D / K W H	3.751	3.767	3.758	3.749	3.743	3.738	3.810	3.787	3.766	3.757

PROJECT NAME : BASAD
 PROJECT ID : 2-008-03-03-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(506.2)	(433.5)	(473.8)	(518.9)	(422.3)	(468.3)	(522.4)	(408.9)	(459.9)	(521.7)
STORAGE DAM	421.11	351.93	379.94	421.11	333.23	366.42	421.11	316.54	353.19	421.11
SPILLWAY	40.50	37.90	38.94	40.50	37.21	38.44	40.50	36.52	37.95	40.50
DIVERSION TUNNEL	29.10	29.10	29.10	29.10	29.10	29.10	29.10	29.10	29.10	29.10
INTAKE (PRESSURE TYPE)	9.82	10.44	9.65	8.87	10.26	9.35	8.47	10.03	9.02	8.07
HEADRACE TUNNEL (PRESSURE)	20.35	20.14	20.11	20.07	20.02	19.98	19.93	19.81	19.77	19.71
SURGE TANK	6.66	6.61	6.56	6.51	6.55	6.49	6.43	6.45	6.39	6.33
PENSTOCK	30.86	26.21	29.06	32.27	25.70	28.95	32.74	25.08	28.65	32.95
(PRESSURE SHAFT)	(4.65)	(4.44)	(4.60)	(4.76)	(4.44)	(4.62)	(4.80)	(4.42)	(4.63)	(4.82)
(STEEL LINER)	(26.21)	(21.77)	(24.46)	(27.51)	(21.27)	(24.33)	(27.95)	(20.65)	(24.03)	(28.13)
POWERHOUSE BUILDING	35.91	32.23	34.17	36.27	31.58	33.80	36.32	30.76	33.23	36.10
(SUPER STRUCTURE)	(15.96)	(14.32)	(15.19)	(16.12)	(14.04)	(15.02)	(16.14)	(13.67)	(14.77)	(16.04)
(SUB STRUCTURE)	(19.95)	(17.91)	(18.98)	(20.15)	(17.54)	(18.78)	(20.18)	(17.09)	(18.46)	(20.06)
MISCELLANEOUS CIVIL WORK	29.71	25.73	27.38	29.73	24.68	26.63	29.73	23.71	25.86	29.69
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	79.60	73.77	76.69	79.79	72.61	75.98	79.69	71.10	74.87	79.10
ENGINEERING/ADMINISTRATION	47.80	44.48	45.89	47.82	43.58	45.28	47.81	42.72	44.63	47.76
CONTINGENCIES	150.28	131.71	139.50	150.41	126.90	136.08	150.37	122.37	132.53	150.08
S U B T O T A L	901.69	790.25	837.00	902.44	761.43	816.50	902.21	734.20	795.19	900.51

ACCESS ROAD (ROAD LENGTH 2.5 KM)

CONSTRUCTION COST	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
ENGINEERING ADMINISTRATION	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
CONTINGENCIES	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
S U B T O T A L	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71

TRANSMISSION LINE SYSTEM (T/L LENGTH 9.0 KM)

TRANSMISSION LINE	4.13	1.98	4.13	4.13	1.98	4.13	4.13	1.98	1.98	4.13
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
ENGINEERING/ADMINISTRATION	0.64	0.37	0.64	0.64	0.37	0.64	0.64	0.37	0.37	0.64
CONTINGENCIES	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
S U B T O T A L	6.59	3.80	6.59	6.59	3.80	6.59	6.59	3.80	3.80	6.59

T O T A L : 908.99 794.76 844.29 909.74 765.94 823.80 909.51 738.71 799.71 907.81

EVALUATION INDICES

U S D / K W	1795.8	1833.2	1782.1	1753.2	1813.6	1759.0	1741.0	1806.6	1738.9	1740.1
U S D / K W H	1.177	1.192	1.161	1.144	1.176	1.143	1.134	1.165	1.126	1.128

PROJECT NAME : CHICO-1R
 PROJECT ID : 2-008-03-04-0
 TYPE : RUN-OF-RIVER

(UNIT : MILLION USD)

 * SUMMARY TABLE OF COST ESTIMATE *

I T E M	C A S E				
	1	2	3	4	5
POWER DEVELOPMENT (INST. CAP. (MW))	(5.2)	(8.5)	(14.2)	(21.7)	(25.6)
DIVERSION DAM/WEIR	1.20	1.26	1.34	1.42	1.53
INTAKE (NON-PRESSURE TYPE)	0.36	0.51	0.73	0.98	1.13
HEADRACE TUNNEL (NON-PRES.)	3.13	4.19	5.68	7.28	8.19
HEAD TANK	0.29	0.40	0.54	0.70	0.79
PENSTOCK	0.45	0.57	0.75	0.95	1.08
(PRESSURE SHAFT)	(0.28)	(0.33)	(0.38)	(0.43)	(0.45)
(STEEL LINER)	(0.18)	(0.25)	(0.37)	(0.52)	(0.62)
POWERHOUSE BUILDING	0.32	0.52	1.23	1.88	2.82
(SUPER STRUCTURE)	(0.14)	(0.23)	(0.55)	(0.84)	(1.25)
MISCELLANEOUS CIVIL WORK	0.29	0.37	0.51	0.66	0.78
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.
POWER EQUIPMENT	2.24	3.49	5.52	8.06	9.64
ENGINEERING/ADMINISTRATION	1.04	1.41	2.04	2.74	3.24
CONTINGENCIES	1.87	2.55	3.67	4.94	5.84
S U B T O T A L	11.21	15.28	22.01	29.63	35.02

ACCESS ROAD (ROAD LENGTH 0. KM)

CONSTRUCTION COST	0.	0.	0.	0.	0.
ENGINEERING ADMINISTRATION	0.	0.	0.	0.	0.
CONTINGENCIES	0.	0.	0.	0.	0.
S U B T O T A L	0.	0.	0.	0.	0.

TRANSMISSION LINE SYSTEM (T/L LENGTH 20.5 KM)

TRANSMISSION LINE	0.47	0.47	0.47	0.47	0.47
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.09	0.09	0.09	0.09	0.09
CONTINGENCIES	0.13	0.13	0.13	0.13	0.13
S U B T O T A L	0.96	0.96	0.96	0.96	0.96

T O T A L : 12.17 16.24 22.97 30.59 35.98

EVALUATION INDICES

U S D / K W	2353.1	1914.5	1617.3	1407.3	1353.1
U S D / K W H	0.380	0.422	0.483	0.538	0.581

PROJECT NAME : SADANGA
 PROJECT ID : 2-008-03-05-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST.CAP(MW))	(234.6)	(189.0)	(210.7)	(238.2)	(182.2)	(206.5)	(238.2)	(174.5)	(200.9)	(236.3)
STORAGE DAM	189.00	144.81	159.11	189.00	136.69	152.49	189.00	127.92	145.81	189.00
SPILLWAY	32.42	29.37	30.40	32.42	28.72	29.93	32.42	28.02	29.45	32.42
DIVERSION TUNNEL	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58
INTAKE (PRESSURE TYPE)	5.56	6.06	5.54	5.10	5.91	5.93	4.85	5.74	5.11	4.62
HEADRACE TUNNEL (PRESSURE)	12.43	12.31	12.29	12.27	12.18	12.16	12.13	12.02	11.99	11.96
SURGE TANK	3.73	3.70	3.67	3.65	3.64	3.61	3.59	3.57	3.54	3.52
PENSTOCK	7.72	5.97	6.92	8.08	5.82	6.88	8.20	5.64	6.78	8.24
(PRESSURE SHAFT)	(1.48)	(1.33)	(1.43)	(1.53)	(1.33)	(1.44)	(1.55)	(1.32)	(1.44)	(1.56)
(STEEL LINER)	(6.24)	(4.64)	(5.49)	(6.55)	(4.49)	(5.44)	(6.65)	(4.32)	(5.34)	(6.67)
POWERHOUSE BUILDING	14.40	12.41	13.33	14.46	12.05	13.00	14.39	11.63	12.77	14.21
(SUPER STRUCTURE)	(6.40)	(5.52)	(5.93)	(6.43)	(5.36)	(5.82)	(6.39)	(5.17)	(5.68)	(6.32)
(SUB STRUCTURE)	(8.00)	(6.89)	(7.41)	(8.03)	(6.70)	(7.27)	(7.99)	(6.46)	(7.09)	(7.90)
MISCELLANEOUS CIVIL WORK	14.44	11.91	12.74	14.43	11.43	12.35	14.41	10.91	11.95	14.38
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	43.09	38.85	40.76	43.02	37.98	40.12	42.73	36.92	39.29	42.20
ENGINEERING/ADMINISTRATION	32.85	29.85	30.89	32.83	29.24	30.42	32.80	28.56	29.92	32.74
CONTINGENCIES	75.85	63.76	67.85	75.77	61.45	65.99	75.62	58.90	64.04	75.37
S U B T O T A L	455.07	382.58	407.09	454.60	358.70	395.96	453.71	353.42	384.23	452.23

ACCESS ROAD (ROAD LENGTH 0. KM)

CONSTRUCTION COST	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ENGINEERING ADMINISTRATION	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CONTINGENCIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
S U B T O T A L	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

TRANSMISSION LINE SYSTEM (T/L LENGTH 28.1 KM)

TRANSMISSION LINE	6.18	3.12	3.12	6.18	3.12	3.12	6.18	3.12	3.12	6.18
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
ENGINEERING/ADMINISTRATION	0.89	0.51	0.51	0.89	0.51	0.51	0.89	0.51	0.51	0.89
CONTINGENCIES	1.21	0.69	0.69	1.21	0.69	0.69	1.21	0.69	0.69	1.21
S U B T O T A L	9.24	5.28	5.28	9.24	5.28	5.28	9.24	5.28	5.28	9.24

T O T A L : 454.31 367.86 412.36 463.84 373.98 401.24 462.95 358.69 389.51 461.47

EVALUATION INDICES

U S D / K W	1979.5	2052.2	1957.5	1947.3	2052.4	1943.5	1943.4	2056.1	1938.9	1952.9
U S D / K W H	0.866	0.890	0.852	0.849	0.886	0.842	0.844	0.883	0.856	0.844

PROJECT NAME : CHICO-2R
 PROJECT ID : 2-008-03-06-0
 TYPE : RUN-OF-RIVER

(UNIT : MILLION USD)

 * SUMMARY TABLE OF COST ESTIMATE *

I T E M	C A S E				
	1	2	3	4	5
POWER DEVELOPMENT (INST.CAP.(MW))	(6.5)	(10.0)	(10.0)	(27.4)	(33.4)
DIVERSION DAM/WEIR	0.95	0.99	1.03	1.08	1.11
INTAKE (NON-PRESSURE TYPE)	0.29	0.41	0.58	0.78	0.90
HEADRACE TUNNEL (NON-PRES.)	5.19	7.00	9.48	12.16	13.67
HEAD TANK	0.24	0.33	0.45	0.57	0.65
PENSTOCK	0.90	1.14	1.51	1.95	2.22
(PRESSURE SHAFT)	(0.51)	(0.59)	(0.69)	(0.78)	(0.82)
(STEEL LINER)	(0.39)	(0.55)	(0.82)	(1.17)	(1.39)
POWERHOUSE BUILDING	0.34	0.55	1.30	1.98	2.95
(SUPER STRUCTURE)	(0.19)	(0.31)	(0.72)	(1.10)	(1.64)
MISCELLANEOUS CIVIL WORK	0.40	0.52	0.72	0.93	1.07
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.
POWER EQUIPMENT	2.16	3.37	5.33	7.76	9.27
ENGINEERING/ADMINISTRATION	1.31	1.79	2.55	3.40	3.98
CONTINGENCIES	2.36	3.22	4.59	6.12	7.16
S U B T O T A L	14.15	19.32	27.53	36.75	42.98

ACCESS ROAD (ROAD LENGTH 0. KM)

CONSTRUCTION COST	0.	0.	0.	0.	0.
ENGINEERING ADMINISTRATION	0.	0.	0.	0.	0.
CONTINGENCIES	0.	0.	0.	0.	0.
S U B T O T A L	0.	0.	0.	0.	0.

TRANSMISSION LINE SYSTEM (T/L LENGTH 12.6 KM)

TRANSMISSION LINE	0.29	0.29	0.29	0.29	0.58
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.54
ENGINEERING/ADMINISTRATION	0.07	0.07	0.07	0.07	0.14
CONTINGENCIES	0.09	0.09	0.09	0.09	0.19
S U B T O T A L	0.72	0.72	0.72	0.72	1.45

T O T A L : 14.87 20.04 28.25 37.47 44.43

EVALUATION INDICES

U S D / K W	2277.3	1859.5	1572.5	1366.7	1331.5
U S D / K W H	0.369	0.411	0.471	0.524	0.573

PROJECT NAME : CHICO-3R
 PROJECT ID : 2-006-03-07-0
 TYPE : RUN-OF-RIVER

(UNIT : MILLION USD)

 * SUMMARY TABLE OF COST ESTIMATE *

I T E M	C A S E				
	1	2	3	4	5
POWER DEVELOPMENT (INST. CAP.(MW))	(3.4)	(5.7)	(9.5)	(14.5)	(17.8)
DIVERSION DAM/WEIR	0.54	0.61	0.71	0.83	0.90
INTAKE (NON-PRESSURE TYPE)	0.23	0.32	0.46	0.62	0.71
HEADRACE TUNNEL (NON-PRES.)	2.86	3.69	5.00	6.42	7.22
HEAD TANK	0.20	0.27	0.36	0.47	0.53
PENSTOCK	0.49	0.59	0.75	0.93	1.04
(PRESSURE SHAFT)	(0.31)	(0.35)	(0.41)	(0.46)	(0.49)
(STEEL LINER)	(0.18)	(0.24)	(0.34)	(0.47)	(0.55)
POWERHOUSE BUILDING	0.20	0.32	0.76	1.16	1.73
(SUPER STRUCTURE)	(0.09)	(0.14)	(0.34)	(0.51)	(0.77)
(SUB STRUCTURE)	(0.11)	(0.18)	(0.42)	(0.64)	(0.96)
MISCELLANEOUS CIVIL WORK	0.23	0.29	0.40	0.52	0.61
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.
POWER EQUIPMENT	1.39	2.17	3.44	5.01	5.99
ENGINEERING/ADMINISTRATION	0.77	1.03	1.49	2.00	2.34
CONTINGENCIES	1.38	1.86	2.67	3.59	4.21
S U B T O T A L	8.26	11.16	16.04	21.55	25.27

ACCESS ROAD (ROAD LENGTH 0. KM)	CONSTRUCTION COST	ENGINEERING ADMINISTRATION	CONTINGENCIES	S U B T O T A L
	0.	0.	0.	0.
	0.	0.	0.	0.
	0.	0.	0.	0.

TRANSMISSION LINE SYSTEM (T/L LENGTH 6.6 KM)	TRANSMISSION LINE	SWITCHYARD AND SUBSTATION	ENGINEERING/ADMINISTRATION	CONTINGENCIES	S U B T O T A L
	0.15	0.15	0.15	0.15	0.15
	0.27	0.27	0.27	0.27	0.27
	0.05	0.05	0.05	0.05	0.05
	0.07	0.07	0.07	0.07	0.07
	0.55	0.55	0.55	0.55	0.55

T O T A L	8.81	11.71	16.59	22.09	25.81
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EVALUATION INDICES	U S D / K W	U S D / K W H
	2557.4	2057.6
	0.415	0.456
	1743.6	1519.2
	0.523	0.583
	1454.2	0.627

PROJECT NAME : BONTOC
 PROJECT ID : 2-008-03-08-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(106.1)	(66.6)	(80.6)	(98.8)	(57.9)	(73.3)	(93.3)	(45.0)	(60.5)	(80.3)
STORAGE DAM	176.72	99.46	123.56	176.72	82.36	110.93	176.72	64.40	98.05	176.72
SPILLWAY	21.50	17.26	18.75	21.50	16.06	18.02	21.50	14.62	17.17	21.50
DIVERSION TUNNEL	9.47	9.47	9.47	9.47	9.47	9.47	9.47	9.47	9.47	9.47
INTAKE (PRESSURE TYPE)	2.75	2.77	2.34	2.00	2.49	2.05	1.72	2.05	1.62	1.35
HEADRACE TUNNEL (PRESSURE)	3.77	3.46	3.45	3.43	3.29	3.28	3.25	2.94	2.92	2.89
SURGE TANK	1.68	1.51	1.48	1.46	1.40	1.38	1.36	1.20	1.18	1.16
PENSTOCK	2.59	1.58	2.04	2.63	1.45	1.93	2.56	1.23	1.70	2.31
(PRESSURE SHAFT)	(0.54)	(0.44)	(0.50)	(0.56)	(0.43)	(0.50)	(0.56)	(0.41)	(0.48)	(0.55)
(STEEL LINER)	(2.05)	(1.15)	(1.54)	(2.06)	(1.02)	(1.43)	(2.00)	(0.82)	(1.21)	(1.76)
POWERHOUSE BUILDING	4.79	3.37	3.83	4.37	3.00	3.51	4.11	2.41	2.93	3.52
(SUPER STRUCTURE)	(2.13)	(1.50)	(1.70)	(1.94)	(1.34)	(1.56)	(1.83)	(1.07)	(1.30)	(1.56)
(SUB STRUCTURE)	(2.66)	(1.87)	(2.13)	(2.43)	(1.67)	(1.95)	(2.28)	(1.34)	(1.63)	(1.95)
MISCELLANEOUS CIVIL WORK	11.16	6.94	8.25	11.08	5.98	7.53	11.03	4.92	6.75	10.95
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	22.25	17.10	18.60	20.30	15.57	17.27	19.16	12.94	14.73	16.63
ENGINEERING/ADMINISTRATION	28.03	20.37	23.97	27.82	17.63	21.92	27.70	14.52	19.56	27.44
CONTINGENCIES	56.94	36.66	43.15	56.15	31.74	39.46	55.72	26.14	35.22	54.79
S U B T O T A L	341.63	219.95	258.89	336.93	190.44	236.74	334.29	156.84	211.29	328.71

ACCESS ROAD (ROAD LENGTH 0. KM)

CONSTRUCTION COST	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ENGINEERING ADMINISTRATION	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CONTINGENCIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
S U B T O T A L	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

TRANSMISSION LINE SYSTEM (T/L LENGTH 6.0 KM)

TRANSMISSION LINE	0.67	0.41	0.67	0.67	0.41	0.67	0.67	0.41	0.41	0.67
SWITCHYARD AND SUBSTATION	0.96	0.62	0.96	0.96	0.62	0.96	0.96	0.62	0.62	0.96
ENGINEERING/ADMINISTRATION	0.20	0.13	0.20	0.20	0.13	0.20	0.20	0.13	0.13	0.20
CONTINGENCIES	0.27	0.17	0.27	0.27	0.17	0.27	0.27	0.17	0.17	0.27
S U B T O T A L	2.10	1.33	2.10	2.10	1.33	2.10	2.10	1.33	1.33	2.10

T O T A L : 343.73 221.28 261.00 339.03 191.77 238.84 336.39 158.17 212.62 330.82

EVALUATION INDICES

U S D / K W	3241.2	3324.7	3237.9	3433.1	3312.9	3256.5	3604.4	3513.3	3515.6	4120.0
U S D / K W H	2.105	2.060	2.022	2.149	2.001	1.988	2.205	1.996	2.030	2.382

PROJECT NAME : CHICO-4R
 PROJECT ID : 2-008-03-09-0
 TYPE : RUN-OF-RIVER

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E				
	1	2	3	4	5
POWER DEVELOPMENT (INST. CAP (MW))	(2.5)	(3.8)	(5.3)	(9.7)	(11.8)
DIVERSION DAM/WEIR	0.49	0.53	0.59	0.65	0.69
INTAKE (NON-PRESSURE TYPE)	0.15	0.20	0.28	0.37	0.42
HEADRACE TUNNEL (NON-PRES.)	4.33	4.37	5.57	7.12	8.01
HEAD TANK	0.13	0.17	0.23	0.30	0.34
PENSTOCK	0.55	0.60	0.74	0.90	1.00
(PRESSURE SHAFT)	(0.35)	(0.36)	(0.42)	(0.47)	(0.50)
(STEEL LINER)	(0.20)	(0.24)	(0.32)	(0.43)	(0.49)
POWERHOUSE BUILDING	0.12	0.18	0.45	0.69	1.03
(SUPER STRUCTURE)	(0.05)	(0.09)	(0.20)	(0.31)	(0.46)
(SUB STRUCTURE)	(0.07)	(0.11)	(0.25)	(0.38)	(0.57)
MISCELLANEOUS CIVIL WORK	0.29	0.30	0.39	0.50	0.57
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.
POWER EQUIPMENT	0.86	1.30	2.05	3.01	3.59
ENGINEERING/ADMINISTRATION	0.86	0.96	1.29	1.69	1.96
CONTINGENCIES	1.56	1.72	2.32	3.05	3.52
S U B T O T A L	9.33	10.35	13.91	18.29	21.12

ACCESS ROAD (ROAD LENGTH 0. KM)	
CONSTRUCTION COST	0.
ENGINEERING ADMINISTRATION	0.
CONTINGENCIES	0.
S U B T O T A L	0.

TRANSMISSION LINE SYSTEM (T/L LENGTH 1.2 KM)	1	2	3	4	5
TRANSMISSION LINE	0.03	0.03	0.03	0.03	0.03
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.04	0.04	0.04	0.04	0.04
CONTINGENCIES	0.05	0.05	0.05	0.05	0.05
S U B T O T A L	0.39	0.39	0.39	0.39	0.39

T O T A L	9.72	10.73	14.30	18.67	21.51
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EVALUATION INDICES	1	2	3	4	5
U S D / K W	3946.2	2836.7	2269.0	1826.4	1821.3
U S D / K W H	0.640	0.628	0.681	0.739	0.785

PROJECT NAME : MATALAG
 PROJECT ID : 2-008-04-10-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP. (MW))	(22.9)	(21.6)	(23.3)	(21.2)	(21.8)	(22.3)	(22.9)	(23.4)	(20.7)	(23.4)
STORAGE DAM	18.72	17.08	18.72	16.60	17.18	17.75	18.27	18.72	16.12	18.72
SPILLWAY	10.17	9.83	10.17	9.73	9.85	9.97	10.08	10.17	9.63	10.17
DIVERSION TUNNEL	9.05	9.05	9.05	9.05	9.05	9.05	9.05	9.05	9.05	9.05
INTAKE (PRESSURE TYPE)	1.83	1.76	1.70	1.74	1.72	1.71	1.69	1.67	1.71	1.63
HEADRACE TUNNEL (PRESSURE)	2.29	2.27	2.26	2.26	2.26	2.26	2.25	2.25	2.25	2.23
SURGE TANK	1.25	1.23	1.22	1.22	1.22	1.22	1.21	1.21	1.21	1.20
PENSTOCK	0.87	0.85	0.88	0.84	0.85	0.86	0.88	0.89	0.83	0.89
(PRESSURE SHAFT)	(0.39)	(0.39)	(0.40)	(0.39)	(0.39)	(0.39)	(0.39)	(0.40)	(0.39)	(0.40)
(STEEL LINER)	(0.48)	(0.46)	(0.49)	(0.45)	(0.46)	(0.47)	(0.48)	(0.49)	(0.45)	(0.49)
POWERHOUSE BUILDING	1.60	1.53	1.61	1.51	1.54	1.57	1.59	1.61	1.49	1.61
(SUPER STRUCTURE)	(0.71)	(0.68)	(0.72)	(0.67)	(0.68)	(0.70)	(0.71)	(0.72)	(0.66)	(0.71)
(SUB STRUCTURE)	(0.89)	(0.85)	(0.90)	(0.84)	(0.86)	(0.87)	(0.88)	(0.90)	(0.83)	(0.89)
MISCELLANEOUS CIVIL WORK	2.29	2.18	2.28	2.15	2.18	2.22	2.25	2.28	2.11	2.27
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	10.12	9.79	10.11	9.69	9.80	9.91	10.01	10.10	9.56	10.05
ENGINEERING/ADMINISTRATION	7.27	6.94	7.25	6.85	6.96	7.06	7.16	7.24	6.74	7.23
CONTINGENCIES	13.09	12.50	13.05	12.33	12.52	12.71	12.89	13.04	12.14	13.01
S U B T O T A L	78.56	75.00	78.32	73.98	75.13	76.28	77.33	78.24	72.83	78.05

ACCESS ROAD (ROAD LENGTH 1.5 KM)

CONSTRUCTION COST	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
ENGINEERING ADMINISTRATION	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
CONTINGENCIES	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
S U B T O T A L	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43

TRANSMISSION LINE SYSTEM (T/L LENGTH 28.0 KM)

TRANSMISSION LINE	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
CONTINGENCIES	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
S U B T O T A L	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18

T O T A L : 80.17 76.61 79.93 75.59 76.74 77.89 78.94 79.85 74.44 79.66

EVALUATION INDICES

U S D / K W	3508.5	3553.4	3431.9	3566.3	3525.6	3487.1	3450.1	3414.6	3592.2	3409.5
U S D / K W H	1.145	1.155	1.116	1.158	1.145	1.132	1.120	1.109	1.163	1.105

PROJECT NAME : NABUANGAN
 PROJECT ID : 2-008-04-11-0
 TYPE : RUN-OF-RIVER

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E				
	1	2	3	4	S
POWER DEVELOPMENT (INST. CAP (MW))	(0.9)	(1.4)	(2.2)	(3.2)	(3.9)
DIVERSION DAM/WEIR	0.41	0.43	0.45	0.48	0.50
INTAKE (NON-PRESSURE TYPE)	0.09	0.11	0.15	0.19	0.22
HEADRACE TUNNEL (NON-PRES.)	3.83	3.83	3.83	3.83	4.18
HEAD TANK	0.07	0.09	0.13	0.17	0.19
PENSTOCK	0.84	0.87	0.91	0.99	1.06
(PRESSURE SHAFT)	(0.59)	(0.59)	(0.59)	(0.61)	(0.65)
(STEEL LINER)	(0.25)	(0.28)	(0.33)	(0.38)	(0.42)
POWERHOUSE BUILDING	0.04	0.07	0.17	0.24	0.36
(SUPER STRUCTURE)	(0.02)	(0.03)	(0.07)	(0.11)	(0.16)
(SUB STRUCTURE)	(0.02)	(0.04)	(0.09)	(0.13)	(0.20)
MISCELLANEOUS CIVIL WORK	0.26	0.27	0.28	0.30	0.33
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.
POWER EQUIPMENT	0.35	0.54	0.84	1.19	1.42
ENGINEERING/ADMINISTRATION	0.74	0.78	0.85	0.92	1.03
CONTINGENCIES	1.33	1.40	1.52	1.66	1.86
S U B T O T A L	7.95	8.39	9.13	9.97	11.15

ACCESS ROAD (ROAD LENGTH 24.0 KM)

CONSTRUCTION COST	5.28	5.28	5.28	5.28	5.28
ENGINEERING ADMINISTRATION	0.42	0.42	0.42	0.42	0.42
CONTINGENCIES	1.14	1.14	1.14	1.14	1.14
S U B T O T A L	6.84	6.84	6.84	6.84	6.84

TRANSMISSION LINE SYSTEM (T/L LENGTH 49.0 KM)

TRANSMISSION LINE	1.13	1.13	1.13	1.13	1.13
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.17	0.17	0.17	0.17	0.17
CONTINGENCIES	0.24	0.24	0.24	0.24	0.24
S U B T O T A L	1.81	1.81	1.81	1.81	1.81

T O T A L : 16.60 17.04 17.76 18.62 19.80

EVALUATION INDICES

U S D / K W	19219.2	12234.4	7940.7	5816.1	5087.6
U S D / K W H	3.114	2.707	2.380	2.228	2.188

PROJECT NAME : PINUKPUK
 PROJECT ID : 2-003-05-12-0
 TYPE : RESERVOIR

(UNIT : MILLION USD)

 * SUMMARY TABLE OF COST ESTIMATE *

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST.CAP(MW))	(17.8)	(16.3)	(17.4)	(18.5)	(15.0)	(16.7)	(18.6)	(13.5)	(15.9)	(18.4)
STORAGE DAM	146.40	129.64	137.44	146.40	116.97	129.61	146.40	103.28	122.73	146.40
SPILLWAY	13.09	12.39	12.72	13.09	11.81	12.39	13.09	11.16	12.07	13.09
DIVERSION TUNNEL	19.43	19.43	19.43	19.43	19.43	19.43	19.43	19.43	19.43	19.43
INTAKE (PRESSURE TYPE)	1.41	1.33	1.30	1.27	1.26	1.21	1.17	1.17	1.11	1.05
HEADRACE TUNNEL (PRESSURE)	1.51	1.48	1.48	1.48	1.46	1.45	1.45	1.42	1.41	1.41
SURGE TANK	0.78	0.76	0.76	0.76	0.74	0.74	0.73	0.71	0.71	0.70
PENSTOCK	1.64	1.59	1.63	1.68	1.54	1.61	1.69	1.48	1.58	1.68
(PRESSURE SHAFT)	(0.79)	(0.79)	(0.80)	(0.80)	(0.78)	(0.79)	(0.80)	(0.78)	(0.79)	(0.80)
(STEEL LINER)	(0.85)	(0.80)	(0.84)	(0.88)	(0.76)	(0.82)	(0.88)	(0.70)	(0.79)	(0.88)
POWERHOUSE BUILDING	1.16	1.08	1.13	1.17	1.02	1.09	1.17	0.93	1.04	1.14
(SUPER STRUCTURE)	(0.51)	(0.48)	(0.50)	(0.52)	(0.45)	(0.48)	(0.52)	(0.41)	(0.46)	(0.51)
(SUB STRUCTURE)	(0.64)	(0.60)	(0.63)	(0.65)	(0.56)	(0.61)	(0.65)	(0.52)	(0.58)	(0.64)
MISCELLANEOUS CIVIL WORK	9.27	8.39	8.79	9.26	7.71	8.38	9.26	6.98	8.00	9.24
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	7.30	6.95	7.14	7.33	6.61	6.92	7.25	6.16	6.64	7.03
ENGINEERING/ADMINISTRATION	24.69	22.88	23.98	24.69	21.07	22.85	24.67	19.09	21.84	24.64
CONTINGENCIES	45.34	41.18	43.16	45.31	37.92	41.13	45.26	34.36	39.31	45.17
S U B T O T A L	272.02	247.11	258.97	271.87	227.53	246.81	271.56	206.19	235.87	271.04

ACCESS ROAD (ROAD LENGTH 3.0 KM)

CONSTRUCTION COST	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
ENGINEERING ADMINISTRATION	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CONTINGENCIES	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
S U B T O T A L	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86

TRANSMISSION LINE SYSTEM (T/L LENGTH 32.0 KM)

TRANSMISSION LINE	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
CONTINGENCIES	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
S U B T O T A L	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30

T O T A L

	274.17	249.26	261.12	274.03	229.68	248.97	273.71	208.35	238.03	273.20
EVALUATION INDICES										
U S D / K W	15375.9	15252.9	15023.6	14840.0	15302.6	14894.8	14724.4	15481.3	15006.1	14866.0
U S D / K W H	3.398	3.356	3.307	3.268	3.348	3.262	3.227	3.359	3.262	3.234

PROJECT NAME : ADAGA
 PROJECT ID : 2-008-05-13-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(71.8)	(54.9)	(62.5)	(71.0)	(52.3)	(60.8)	(70.4)	(49.1)	(58.5)	(69.0)
STORAGE DAM	74.43	52.09	61.42	74.43	48.29	59.02	74.43	44.71	56.79	74.43
SPILLWAY	21.36	18.45	19.76	21.36	17.91	19.45	21.36	17.32	19.13	21.36
DIVERSION TUNNEL	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41	14.41
INTAKE (PRESSURE TYPE)	2.25	2.33	2.17	2.03	2.24	2.07	1.92	2.13	1.95	1.80
HEADRACE TUNNEL (PRESSURE)	3.08	3.01	3.00	3.00	2.97	2.96	2.95	2.90	2.89	2.89
SURGE TANK	1.30	1.26	1.25	1.25	1.24	1.23	1.22	1.20	1.19	1.18
PENSTOCK	4.35	3.55	3.93	4.36	3.44	3.87	4.35	3.31	3.78	4.31
(PRESSURE SHAFT)	(1.12)	(1.07)	(1.10)	(1.13)	(1.06)	(1.10)	(1.13)	(1.06)	(1.09)	(1.13)
(STEEL LINER)	(3.23)	(2.48)	(2.83)	(3.23)	(2.38)	(2.77)	(3.22)	(2.25)	(2.69)	(3.18)
POWERHOUSE BUILDING	3.38	2.80	3.05	3.31	2.69	2.97	3.27	2.55	2.87	3.20
(SUPER STRUCTURE)	(1.50)	(1.24)	(1.35)	(1.47)	(1.20)	(1.32)	(1.45)	(1.14)	(1.27)	(1.42)
(SUB STRUCTURE)	(1.88)	(1.55)	(1.69)	(1.84)	(1.49)	(1.65)	(1.82)	(1.42)	(1.59)	(1.78)
MISCELLANEOUS CIVIL WORK	6.23	4.90	5.45	6.21	4.66	5.30	6.20	4.43	5.15	6.18
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	16.59	14.48	15.33	16.21	14.04	15.01	16.00	13.46	14.55	15.64
ENGINEERING/ADMINISTRATION	18.42	14.65	16.22	18.32	13.99	15.79	18.27	13.30	15.34	18.17
CONTINGENCIES	33.16	26.33	29.20	32.98	25.18	28.42	32.88	23.95	27.61	32.71
S U B T O T A L	198.98	158.32	175.21	197.87	151.05	170.49	197.26	143.69	165.67	196.28

ACCESS ROAD (ROAD LENGTH 21.0 KM)

CONSTRUCTION COST	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62
ENGINEERING ADMINISTRATION	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
CONTINGENCIES	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
S U B T O T A L	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99

TRANSMISSION LINE SYSTEM (T/L LENGTH 47.0 KM)

TRANSMISSION LINE	5.22	3.20	3.20	5.22	3.20	3.20	5.22	3.20	3.20	3.20
SWITCHYARD AND SUBSTATION	0.96	0.62	0.62	0.96	0.62	0.62	0.96	0.62	0.62	0.62
ENGINEERING/ADMINISTRATION	0.77	0.48	0.48	0.77	0.48	0.48	0.77	0.48	0.48	0.48
CONTINGENCIES	1.04	0.64	0.64	1.04	0.64	0.64	1.04	0.64	0.64	0.64
S U B T O T A L	7.99	4.94	4.94	7.99	4.94	4.94	7.99	4.94	4.94	4.94

T O T A L : 212.96 169.24 186.13 211.85 161.98 181.42 211.24 154.62 176.59 207.20

EVALUATION INDICES

U S D / K W	2967.7	3082.8	2976.9	2995.7	3097.8	2982.0	3001.8	3148.5	3016.8	3002.2
U S D / K W H	1.925	1.968	1.906	1.915	1.965	1.897	1.914	1.976	1.901	1.896

PROJECT NAME : SALTAN-4
 PROJECT ID : 2-008-05-14-0
 TYPE : RESERVOIR

(UNIT : MILLION USD)

 * SUMMARY TABLE OF COST ESTIMATE *

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(17.1)	(11.1)	(13.2)	(16.0)	(9.8)	(12.1)	(15.1)	(7.7)	(10.1)	(13.0)
STORAGE DAM	211.06	125.10	151.16	211.06	105.23	137.35	211.06	82.80	122.41	211.06
SPILLWAY	22.73	18.61	20.00	22.73	17.42	19.30	22.73	15.91	18.46	22.73
DIVERSION TUNNEL	11.27	11.27	11.27	11.27	11.27	11.27	11.27	11.27	11.27	11.27
INTAKE (PRESSURE TYPE)	0.57	0.65	0.52	0.42	0.58	0.45	0.35	0.47	0.35	0.27
HEADRACE TUNNEL (PRESSURE)	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
SURGE TANK	0.25	0.23	0.23	0.22	0.21	0.21	0.21	0.18	0.18	0.18
PENSTOCK	1.65	1.27	1.43	1.62	1.21	1.38	1.58	1.10	1.27	1.47
(PRESSURE SHAFT)	(0.71)	(0.64)	(0.67)	(0.70)	(0.63)	(0.66)	(0.69)	(0.60)	(0.64)	(0.67)
(STEEL LINER)	(0.95)	(0.64)	(0.76)	(0.92)	(0.58)	(0.72)	(0.89)	(0.50)	(0.63)	(0.80)
POWERHOUSE BUILDING	0.74	0.54	0.60	0.68	0.48	0.55	0.64	0.39	0.46	0.55
(SUPER STRUCTURE)	(0.33)	(0.24)	(0.27)	(0.30)	(0.21)	(0.25)	(0.26)	(0.17)	(0.21)	(0.24)
(SUB STRUCTURE)	(0.41)	(0.30)	(0.33)	(0.38)	(0.27)	(0.31)	(0.36)	(0.22)	(0.26)	(0.30)
MISCELLANEOUS CIVIL WORK	12.47	7.94	9.31	12.45	6.87	8.58	12.44	5.66	7.77	12.43
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	4.06	3.19	3.45	3.74	2.92	3.21	3.53	2.44	2.74	3.07
ENGINEERING/ADMINISTRATION	28.56	21.23	24.50	28.52	18.41	22.92	28.50	15.16	20.74	28.46
CONTINGENCIES	58.88	38.21	44.70	58.75	33.13	41.25	58.67	27.28	37.34	58.50
S U B T O T A L	353.29	229.28	268.22	352.51	198.77	247.51	352.03	163.70	224.03	351.02

ACCESS ROAD (ROAD LENGTH 3.0 KM)

CONSTRUCTION COST	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
ENGINEERING ADMINISTRATION	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CONTINGENCIES	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
S U B T O T A L	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86

TRANSMISSION LINE SYSTEM (T/L LENGTH 41.0 KM)

TRANSMISSION LINE	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
CONTINGENCIES	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
S U B T O T A L	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57

T O T A L : 355.71 231.71 270.64 354.94 201.20 249.93 354.46 166.12 226.46 353.44

EVALUATION INDICES

U S D / K W	20757.5	20795.6	20827.6	22176.1	20547.4	20636.9	23437.5	21568.9	22508.2	27088.8
U S D / K W H	4.582	4.469	4.410	4.794	4.348	4.393	4.995	4.391	4.625	5.572

PROJECT NAME : SALTAN
 PROJECT ID : 2-008-05-15-0
 TYPE : RUN-OF-RIVER

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E				
	1	2	3	4	5
POWER DEVELOPMENT (INST. CAP (MW))	(2.6)	(4.2)	(6.6)	(10.0)	(12.1)
DIVERSION DAM/WEIR	0.46	0.48	0.52	0.56	0.58
INTAKE (NON-PRESSURE TYPE)	0.11	0.14	0.19	0.25	0.29
HEADRACE TUNNEL (NON-PRES.)	5.82	5.62	5.62	6.75	7.42
HEAD TANK	0.09	0.12	0.16	0.21	0.24
PENSTOCK	2.03	2.19	2.44	2.95	3.26
(PRESSURE SHAFT)	(1.26)	(1.26)	(1.26)	(1.41)	(1.49)
(STEEL LINER)	(0.77)	(0.94)	(1.18)	(1.54)	(1.77)
POWERHOUSE BUILDING	0.11	0.17	0.39	0.59	0.87
(SUPER STRUCTURE)	(0.05)	(0.08)	(0.17)	(0.26)	(0.39)
(SUB STRUCTURE)	(0.06)	(0.10)	(0.22)	(0.33)	(0.49)
MISCELLANEOUS CIVIL WORK	0.42	0.44	0.47	0.57	0.63
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.
POWER EQUIPMENT	0.69	1.06	1.63	2.37	2.83
ENGINEERING/ADMINISTRATION	1.19	1.28	1.43	1.78	2.01
CONTINGENCIES	2.14	2.30	2.57	3.21	3.63
S U B T O T A L	12.86	13.81	15.42	19.23	21.76

ACCESS ROAD (ROAD LENGTH 2.0 KM)

CONSTRUCTION COST	0.44	0.44	0.44	0.44	0.44
ENGINEERING ADMINISTRATION	0.04	0.04	0.04	0.04	0.04
CONTINGENCIES	0.10	0.10	0.10	0.10	0.10
S U B T O T A L	0.57	0.57	0.57	0.57	0.57

TRANSMISSION LINE SYSTEM (T/L LENGTH 51.6 KM)

TRANSMISSION LINE	1.19	1.19	1.19	1.19	1.19
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.18	0.18	0.18	0.18	0.18
CONTINGENCIES	0.25	0.25	0.25	0.25	0.25
S U B T O T A L	1.89	1.89	1.88	1.88	1.88

T O T A L : 15.31 16.27 17.88 21.69 24.22

EVALUATION INDICES

U S D / K W	5794.5	3856.1	2710.5	2176.4	1995.7
U S D / K W H	0.939	0.554	0.313	0.235	0.260

PROJECT NAME : SALTAN-5
 PROJECT ID : 2-008-05-16-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(7.6)	(5.2)	(6.1)	(7.2)	(4.9)	(5.9)	(7.0)	(4.3)	(5.4)	(6.6)
STORAGE DAM	73.27	44.43	56.29	73.27	39.72	53.31	73.27	35.54	50.30	73.27
SPILLWAY	14.75	12.20	13.34	14.75	11.71	13.08	14.75	11.20	12.80	14.75
DIVERSION TUNNEL	8.19	8.19	8.19	8.19	8.19	8.19	8.19	8.19	8.19	8.19
INTAKE (PRESSURE TYPE)	0.39	0.38	0.34	0.30	0.35	0.31	0.27	0.32	0.27	0.24
HEADRACE TUNNEL (PRESSURE)	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
SURGE TANK	0.17	0.16	0.16	0.15	0.15	0.15	0.15	0.14	0.14	0.14
PENSTOCK	1.30	1.13	1.21	1.28	1.11	1.19	1.27	1.07	1.15	1.24
(PRESSURE SHAFT)	(0.71)	(0.67)	(0.69)	(0.70)	(0.67)	(0.68)	(0.70)	(0.65)	(0.67)	(0.68)
(STEEL LINER)	(0.59)	(0.46)	(0.52)	(0.58)	(0.44)	(0.51)	(0.58)	(0.42)	(0.48)	(0.55)
POWERHOUSE BUILDING	0.37	0.23	0.32	0.35	0.27	0.30	0.34	0.24	0.28	0.32
(SUPER STRUCTURE)	(0.17)	(0.13)	(0.14)	(0.15)	(0.12)	(0.13)	(0.15)	(0.11)	(0.12)	(0.14)
(SUB STRUCTURE)	(0.21)	(0.16)	(0.18)	(0.19)	(0.15)	(0.17)	(0.19)	(0.13)	(0.15)	(0.18)
MISCELLANEOUS CIVIL WORK	4.98	3.39	4.05	4.97	3.13	3.88	4.97	2.89	3.71	4.96
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	2.33	1.89	2.03	2.18	1.80	1.96	2.12	1.66	1.82	1.99
ENGINEERING/ADMINISTRATION	13.36	9.15	10.88	13.32	8.44	10.43	13.30	7.79	9.97	13.27
CONTINGENCIES	24.04	16.46	19.58	23.97	15.20	18.78	23.95	14.03	17.95	23.89
S U B T O T A L	144.26	98.77	117.48	143.83	91.18	112.69	143.68	84.18	107.69	143.36

ACCESS ROAD (ROAD LENGTH 7.5 KM)

CONSTRUCTION COST	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
ENGINEERING ADMINISTRATION	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
CONTINGENCIES	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
S U B T O T A L	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14

TRANSMISSION LINE SYSTEM (T/L LENGTH 39.0 KM)

TRANSMISSION LINE	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
CONTINGENCIES	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
S U B T O T A L	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51

T O T A L	147.90	102.42	121.13	147.48	94.83	116.34	147.32	87.82	111.34	147.00
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EVALUATION INDICES

U S D / K W	19576.3	19596.9	19708.8	20599.3	19523.9	19799.3	21071.9	20291.4	20654.5	22427.7
U S D / K-W H	4.277	4.181	4.218	4.417	4.133	4.208	4.486	4.223	4.319	4.698

PROJECT NAME : BABACA-R
 PROJECT ID : 2-008-05-17-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP (MW))	(8.1)	(6.2)	(7.1)	(8.0)	(5.9)	(6.9)	(7.9)	(5.5)	(6.6)	(7.8)
STORAGE DAM	36.72	26.28	30.91	36.72	24.78	29.94	36.72	23.21	28.82	36.72
SPILLWAY	11.88	10.29	11.03	11.88	10.02	10.87	11.88	9.73	10.69	11.88
DIVERSION TUNNEL	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36
INTAKE (PRESSURE TYPE)	0.52	0.53	0.49	0.45	0.50	0.45	0.43	0.48	0.44	0.40
HEADRACE TUNNEL (PRESSURE)	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
SURGE TANK	0.25	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.22	0.22
PENSTOCK	0.37	0.32	0.35	0.38	0.31	0.35	0.38	0.31	0.34	0.38
{PRESSURE SHAFT}	(0.21)	(0.19)	(0.20)	(0.21)	(0.19)	(0.20)	(0.22)	(0.19)	(0.20)	(0.22)
{STEEL LINER}	(0.16)	(0.13)	(0.14)	(0.17)	(0.12)	(0.14)	(0.17)	(0.12)	(0.14)	(0.17)
POWEROUSE BUILDING	0.46	0.38	0.42	0.45	0.37	0.41	0.45	0.35	0.39	0.44
{SUPER STRUCTURE}	(0.21)	(0.17)	(0.19)	(0.20)	(0.16)	(0.18)	(0.20)	(0.16)	(0.17)	(0.19)
{SUB STRUCTURE}	(0.26)	(0.21)	(0.23)	(0.25)	(0.20)	(0.22)	(0.25)	(0.19)	(0.22)	(0.24)
MISCELLANEOUS CIVIL WORK	2.76	2.15	2.42	2.75	2.06	2.36	2.75	1.96	2.29	2.75
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	3.03	2.64	2.80	2.95	2.56	2.74	2.92	2.46	2.65	2.85
ENGINEERING/ADMINISTRATION	7.62	5.97	6.70	7.60	5.73	6.54	7.50	5.46	6.36	7.58
CONTINGENCIES	13.72	10.75	12.06	13.68	10.31	11.78	13.66	9.83	11.44	13.64
S U B T O T A L	82.29	64.50	72.38	82.08	61.85	70.66	81.98	59.00	68.64	81.83

ACCESS ROAD (ROAD LENGTH : 11.5 KM)

CONSTRUCTION COST	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53
ENGINEERING ADMINISTRATION	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
CONTINGENCIES	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
S U B T O T A L	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28

TRANSMISSION LINE SYSTEM (T/L LENGTH : 42.0 KM)

TRANSMISSION LINE	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
CONTINGENCIES	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
S U B T O T A L	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60

T O T A L : 87.17 69.38 77.26 86.96 66.73 75.59 86.86 63.88 73.51 86.70

EVALUATION INDICES

U S D / K W	10779.3	11247.5	10936.2	10647.5	11338.3	10977.5	10927.6	11524.9	11109.3	11123.9
U S D / K W H	2.376	2.455	2.391	2.373	2.465	2.391	2.381	2.489	2.405	2.409

PROJECT NAME : BABACA
 PROJECT ID : 2-008-05-18-0
 TYPE : RUN-OF-RIVER

(UNIT : MILLION USD)

 * SUMMARY TABLE OF COST ESTIMATE *

I T E M	C A S E				
	1	2	3	4	5
POWER DEVELOPMENT (INST. CAP (MW))	(1.3)	(2.2)	(3.5)	(5.2)	(6.3)
DIVERSION DAM/WEIR	0.34	0.36	0.38	0.40	0.42
INTAKE (NON-PRESSURE TYPE)	0.08	0.11	0.14	0.18	0.21
HEADRACE TUNNEL (NON-PRES.)	2.72	2.72	2.72	2.72	2.86
HEAD TANK	0.07	0.09	0.12	0.16	0.18
PENSTOCK	1.33	1.39	1.50	1.62	1.74
(PRESSURE SHAFT)	(0.89)	(0.89)	(0.89)	(0.89)	(0.93)
(STEEL LINER)	(0.44)	(0.50)	(0.61)	(0.73)	(0.81)
POWERHOUSE BUILDING	0.06	0.09	0.22	0.32	0.48
(SUPER STRUCTURE)	(0.03)	(0.04)	(0.10)	(0.14)	(0.21)
(SUB STRUCTURE)	(0.03)	(0.05)	(0.12)	(0.18)	(0.27)
MISCELLANEOUS CIVIL WORK	0.23	0.24	0.25	0.27	0.29
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.
POWER EQUIPMENT	0.41	0.64	1.00	1.43	1.70
ENGINEERING/ADMINISTRATION	0.65	0.70	0.79	0.89	0.98
CONTINGENCIES	1.18	1.27	1.42	1.60	1.77
S U B T O T A L	7.07	7.60	8.54	9.60	10.63

ACCESS ROAD (ROAD LENGTH 24.0 KM)

CONSTRUCTION COST	5.28	5.28	5.28	5.28	5.28
ENGINEERING ADMINISTRATION	0.42	0.42	0.42	0.42	0.42
CONTINGENCIES	1.14	1.14	1.14	1.14	1.14
S U B T O T A L	6.84	6.84	6.84	6.84	6.84

TRANSMISSION LINE SYSTEM (T/L LENGTH 48.0 KM)

TRANSMISSION LINE	1.10	1.10	1.10	1.10	1.10
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.17	0.17	0.17	0.17	0.17
CONTINGENCIES	0.23	0.23	0.23	0.23	0.23
S U B T O T A L	1.78	1.78	1.78	1.78	1.78

T O T A L : 15.69 16.22 17.16 18.22 19.25

EVALUATION INDICES

U S D / K W	11745.5	7495.3	4852.6	3507.8	3074.9
U S D / K W H	1.904	1.660	1.456	1.346	1.325

PROJECT NAME : NANENG
 PROJECT ID : 2-008-06-19-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(82.2)	(63.3)	(71.1)	(80.8)	(60.6)	(69.1)	(79.9)	(57.4)	(66.5)	(78.2)
STORAGE DAM	92.59	65.40	74.94	92.59	61.28	72.07	92.59	57.49	69.51	92.59
SPILLWAY	22.48	19.61	20.69	22.48	19.13	20.39	22.48	18.65	20.09	22.48
DIVERSION TUNNEL	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69
INTAKE (PRESSURE TYPE)	2.25	2.41	2.18	2.00	2.33	2.08	1.90	2.22	1.96	1.78
HEADRACE TUNNEL (PRESSURE)	3.82	3.73	3.72	3.70	3.67	3.66	3.65	3.59	3.58	3.57
SURGE TANK	1.43	1.39	1.38	1.37	1.36	1.35	1.34	1.32	1.31	1.30
PENSTOCK	4.62	3.72	4.12	4.61	3.62	4.05	4.59	3.49	3.95	4.53
(PRESSURE SHAFT)	(1.11)	(1.04)	(1.08)	(1.11)	(1.04)	(1.07)	(1.11)	(1.03)	(1.07)	(1.10)
(STEEL LINER)	(3.52)	(2.68)	(3.05)	(3.51)	(2.58)	(2.98)	(3.48)	(2.46)	(2.89)	(3.43)
POWERHOUSE BUILDING	3.78	3.14	3.39	3.68	3.03	3.30	3.63	2.89	3.18	3.54
(SUPER STRUCTURE)	(1.68)	(1.38)	(1.50)	(1.64)	(1.35)	(1.47)	(1.61)	(1.29)	(1.42)	(1.57)
(SUB STRUCTURE)	(2.10)	(1.74)	(1.88)	(2.05)	(1.68)	(1.83)	(2.02)	(1.61)	(1.77)	(1.97)
MISCELLANEOUS CIVIL WORK	7.28	5.70	6.25	7.26	5.46	6.08	7.24	5.22	5.91	7.22
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	18.13	15.86	16.68	17.64	15.42	16.32	17.38	14.84	15.82	16.97
ENGINEERING/ADMINISTRATION	21.38	16.96	18.50	21.25	16.25	18.00	21.19	15.55	17.50	21.08
CONTINGENCIES	38.49	30.52	33.31	38.26	29.25	32.40	38.14	27.99	31.50	37.95
S U B T O T A L	230.96	183.12	199.84	229.53	179.47	194.40	228.82	167.96	189.01	227.71
ACCESS ROAD (ROAD LENGTH 3.5 KM)										
CONSTRUCTION COST	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77
ENGINEERING ADMINISTRATION	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
CONTINGENCIES	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
S U B T O T A L	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
TRANSMISSION LINE SYSTEM (T/L LENGTH 35.0 KM)										
TRANSMISSION LINE	3.88	2.35	3.88	3.88	2.38	2.38	3.88	2.38	2.38	3.88
SWITCHYARD AND SUBSTATION	0.96	0.62	0.96	0.96	0.62	0.62	0.96	0.62	0.62	0.96
ENGINEERING/ADMINISTRATION	0.61	0.37	0.61	0.61	0.37	0.37	0.61	0.37	0.37	0.61
CONTINGENCIES	0.82	0.51	0.82	0.82	0.51	0.51	0.82	0.51	0.51	0.82
S U B T O T A L	6.27	3.85	6.27	6.27	3.88	3.88	6.27	3.88	3.88	6.27
T O T A L	238.22	188.00	207.10	236.80	180.35	199.28	236.09	172.83	193.89	234.97
EVALUATION INDICES										
U S D / K W H	2896.5	2569.6	2814.2	2929.9	2974.1	2882.7	2954.3	3009.5	2915.0	3006.4
U S D / K W H	1.261	1.274	1.253	1.261	1.268	1.233	1.265	1.272	1.236	1.278

PROJECT NAME : MT. BOLONTOC
 PROJECT ID : 2-008-06-20-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP. (MW))	(25.3)	(16.3)	(19.5)	(23.6)	(14.3)	(17.8)	(22.4)	(11.3)	(14.9)	(19.4)
STORAGE DAM	374.69	215.90	269.13	374.69	183.33	245.93	374.69	147.99	223.75	374.69
SPILLWAY	26.22	20.89	22.91	26.22	19.51	22.05	26.22	17.83	21.21	26.22
DIVERSION TUNNEL	15.56	15.56	15.56	15.56	15.56	15.56	15.56	15.56	15.56	15.56
INTAKE (PRESSURE TYPE)	0.82	0.81	0.68	0.59	0.71	0.58	0.49	0.57	0.45	0.38
HEADRACE TUNNEL (PRESSURE)	1.54	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42
SURGE TANK	0.38	0.34	0.34	0.33	0.32	0.31	0.31	0.27	0.27	0.27
PENSTOCK	2.49	1.91	2.14	2.44	1.80	2.05	2.38	1.61	1.87	2.19
(PRESSURE SHAFT)	(0.94)	(0.86)	(0.90)	(0.93)	(0.85)	(0.89)	(0.92)	(0.81)	(0.85)	(0.88)
(STEEL LINER)	(1.55)	(1.04)	(1.25)	(1.51)	(0.95)	(1.17)	(1.46)	(0.80)	(1.02)	(1.31)
POWERHOUSE BUILDING	1.08	0.77	0.87	0.99	0.69	0.80	0.93	0.56	0.68	0.80
(SUPER STRUCTURE)	(0.48)	(0.34)	(0.39)	(0.44)	(0.31)	(0.36)	(0.41)	(0.25)	(0.30)	(0.36)
(SUB STRUCTURE)	(0.60)	(0.43)	(0.48)	(0.55)	(0.38)	(0.45)	(0.52)	(0.31)	(0.38)	(0.45)
MISCELLANEOUS CIVIL WORK	21.14	12.88	15.65	21.11	11.17	14.44	21.10	9.29	13.26	21.08
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	5.67	4.41	4.77	5.19	4.03	4.44	4.91	3.38	3.82	4.28
ENGINEERING/ADMINISTRATION	37.71	29.07	32.20	37.67	26.97	30.85	37.64	24.47	29.48	37.59
CONTINGENCIES	97.46	60.79	73.13	97.24	53.10	67.69	97.13	44.59	62.35	96.89
S U B T O T A L	584.76	364.74	438.80	583.45	318.61	405.12	582.79	267.56	374.12	581.37

ACCESS ROAD (ROAD LENGTH 4.5 KM)

CONSTRUCTION COST	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
ENGINEERING ADMINISTRATION	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
CONTINGENCIES	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
S U B T O T A L	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28

TRANSMISSION LINE SYSTEM (T/L LENGTH 26.0 KM)

TRANSMISSION LINE	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
CONTINGENCIES	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
S U B T O T A L	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12

T O T A L : 587.16 367.15 441.21 585.86 321.01 408.53 585.19 269.97 376.52 583.77

EVALUATION INDICES

U S D / K W H	23202.1	22579.5	22640.4	24811.4	22469.1	22010.5	26117.9	23385.7	25211.7	30063.3
U S D / K W H	5.132	4.857	4.666	5.365	4.760	4.873	5.569	4.874	5.182	6.188

PROJECT NAME : LOWER PASIL
 PROJECT ID : 2-008-06-21-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP (MW))	(79.4)	(49.6)	(61.4)	(75.0)	(46.1)	(58.7)	(73.2)	(42.6)	(56.0)	(71.3)
STORAGE DAM	109.33	55.38	75.70	109.33	50.20	71.72	109.33	44.78	68.09	109.33
SPILLWAY	22.57	17.40	19.64	22.57	16.72	19.25	22.57	15.99	18.86	22.57
DIVERSION TUNNEL	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20
INTAKE (PRESSURE TYPE)	2.46	2.20	1.97	1.79	2.08	1.84	1.66	1.95	1.71	1.54
HEADRACE TUNNEL (PRESSURE)	2.87	2.63	2.62	2.61	2.56	2.56	2.55	2.50	2.49	2.48
SURGE TANK	1.34	1.19	1.18	1.17	1.15	1.14	1.13	1.11	1.10	1.09
PENSTOCK	1.85	1.21	1.54	1.93	1.15	1.50	1.92	1.10	1.46	1.91
(PRESSURE SHAFT)	(0.45)	(0.38)	(0.43)	(0.48)	(0.38)	(0.43)	(0.48)	(0.38)	(0.43)	(0.48)
(STEEL LINER)	(1.39)	(0.82)	(1.10)	(1.45)	(0.77)	(1.07)	(1.44)	(0.72)	(1.03)	(1.42)
POWERHOUSE BUILDING	3.68	2.59	2.98	3.40	2.44	2.86	3.30	2.28	2.74	3.21
(SUPER STRUCTURE)	(1.64)	(1.15)	(1.32)	(1.51)	(1.08)	(1.27)	(1.47)	(1.01)	(1.22)	(1.43)
(SUB STRUCTURE)	(2.05)	(1.44)	(1.66)	(1.89)	(1.35)	(1.59)	(1.84)	(1.27)	(1.52)	(1.78)
MISCELLANEOUS CIVIL WORK	7.71	4.84	5.79	7.65	4.33	5.55	7.63	4.00	5.33	7.52
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	17.79	13.63	14.99	16.36	12.99	14.46	15.93	12.34	13.92	15.48
ENGINEERING/ADMINISTRATION	22.47	13.88	17.08	22.13	12.98	16.38	22.03	12.03	15.74	21.93
CONTINGENCIES	40.45	24.99	30.74	39.83	23.36	29.49	39.65	21.66	28.33	39.47
S U B T O T A L	242.73	149.92	184.41	238.97	140.15	176.96	237.90	129.93	169.96	236.81

ACCESS ROAD (ROAD LENGTH 0. KM)

CONSTRUCTION COST	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ENGINEERING ADMINISTRATION	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CONTINGENCIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
S U B T O T A L	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

TRANSMISSION LINE SYSTEM (T/L LENGTH 30.0 KM)

TRANSMISSION LINE	3.33	2.04	2.04	3.33	2.04	2.04	3.33	2.04	2.04	3.33
SWITCHYARD AND SUBSTATION	0.96	0.62	0.62	0.96	0.62	0.62	0.96	0.62	0.62	0.96
ENGINEERING/ADMINISTRATION	0.54	0.33	0.33	0.54	0.33	0.33	0.54	0.33	0.33	0.54
CONTINGENCIES	0.72	0.45	0.45	0.72	0.45	0.45	0.72	0.45	0.45	0.72
S U B T O T A L	5.55	3.44	3.44	5.55	3.44	3.44	5.55	3.44	3.44	5.55

T O T A L : 248.28 153.36 187.65 244.52 143.59 180.40 243.45 133.38 173.41 242.36

EVALUATION INDICES

U S D / K W	3128.4	3094.5	3057.4	3259.1	3116.3	3072.6	3326.0	3133.4	3088.1	3401.1
U S D / K W H	2.031	1.916	1.906	2.037	1.908	1.895	2.057	1.895	1.889	2.079

PROJECT NAME : PASIL
 PROJECT ID : 2-008-06-22-0
 TYPE : RUN-OF-RIVER

(UNIT : MILLION USD)

 * SUMMARY TABLE OF COST ESTIMATE *

I T E M	C A S E				
	1	2	3	4	5
POWER DEVELOPMENT (INST. CAP.(MW))	(4.2)	(6.8)	(10.9)	(16.5)	(20.0)
DIVERSION DAM/WEIR	0.30	0.31	0.32	0.34	0.35
INTAKE (NON-PRESSURE TYPE)	0.11	0.14	0.19	0.25	0.29
HEADRACE TUNNEL (NON-PRES.)	6.11	6.11	6.11	7.37	8.10
HEAD TANK	0.09	0.12	0.17	0.21	0.24
PENSTOCK	1.93	2.15	2.51	3.12	3.51
(PRESSURE SHAFT)	(1.09)	(1.09)	(1.09)	(1.21)	(1.29)
(STEEL LINER)	(0.84)	(1.06)	(1.42)	(1.91)	(2.22)
POWERHOUSE BUILDING	0.15	0.24	0.54	0.82	1.22
(SUPER STRUCTURE)	(0.07)	(0.11)	(0.24)	(0.37)	(0.54)
(SUB STRUCTURE)	(0.08)	(0.13)	(0.30)	(0.46)	(0.68)
MISCELLANEOUS CIVIL WORK	0.43	0.45	0.49	0.61	0.69
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.
POWER EQUIPMENT	0.85	1.33	2.06	2.99	3.56
ENGINEERING/ADMINISTRATION	1.25	1.36	1.55	1.96	2.24
CONTINGENCIES	2.24	2.44	2.79	3.54	4.04
S U B T O T A L	13.46	14.65	16.73	21.22	24.24

ACCESS ROAD (ROAD LENGTH 2.0 KM)

CONSTRUCTION COST	0.44	0.44	0.44	0.44	0.44
ENGINEERING ADMINISTRATION	0.04	0.04	0.04	0.04	0.04
CONTINGENCIES	0.10	0.10	0.10	0.10	0.10
S U B T O T A L	0.57	0.57	0.57	0.57	0.57

TRANSMISSION LINE SYSTEM (T/L LENGTH 9.6 KM)

TRANSMISSION LINE	0.22	0.22	0.22	0.22	0.22
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.06	0.06	0.06	0.06	0.06
CONTINGENCIES	0.08	0.08	0.08	0.08	0.08
S U B T O T A L	0.63	0.63	0.63	0.63	0.63

T O T A L	14.67	15.85	17.93	22.42	25.44
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EVALUATION INDICES

U S D / K W	3460.2	2326.4	1647.4	1362.6	1270.9
U S D / K W H	0.561	0.515	0.495	0.523	0.546

PROJECT NAME : TANUDAN
 PROJECT ID : 2-008-06-23-0
 TYPE : RUN-OF-RIVER

(UNIT : MILLION USD)

 * SUMMARY TABLE OF COST ESTIMATE *

I T E M	C A S E				
	1	2	3	4	5
POWER DEVELOPMENT (INST. CAP.(MW))	(5.1)	(8.0)	(13.2)	(20.2)	(24.5)
DIVERSION DAM/WEIR	0.61	0.65	0.71	0.76	0.80
INTAKE (NON-PRESSURE TYPE)	0.14	0.19	0.27	0.35	0.40
HEADRACE TUNNEL (NON-PRES.)	5.30	5.30	6.60	8.37	9.41
HEAD TANK	0.12	0.16	0.22	0.28	0.32
PENSTOCK	1.69	1.91	2.43	3.10	3.50
(PRESSURE SHAFT)	(0.93)	(0.93)	(1.06)	(1.19)	(1.27)
(STEEL LINER)	(0.76)	(0.98)	(1.38)	(1.91)	(2.24)
POWERHOUSE BUILDING	0.20	0.31	0.72	1.10	1.64
(SUPER STRUCTURE)	(0.09)	(0.14)	(0.32)	(0.49)	(0.73)
(SUB STRUCTURE)	(0.11)	(0.17)	(0.40)	(0.61)	(0.91)
MISCELLANEOUS CIVIL WORK	0.40	0.43	0.55	0.70	0.80
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.
POWER EQUIPMENT	1.16	1.77	2.78	4.06	4.84
ENGINEERING/ADMINISTRATION	1.20	1.34	1.78	2.34	2.72
CONTINGENCIES	2.17	2.41	3.21	4.22	4.89
S U B T O T A L	12.99	14.47	19.27	25.29	29.33
ACCESS ROAD (ROAD LENGTH 13.0 KM)					
CONSTRUCTION COST	2.86	2.86	2.86	2.86	2.86
ENGINEERING ADMINISTRATION	0.23	0.23	0.23	0.23	0.23
CONTINGENCIES	0.62	0.62	0.62	0.62	0.62
S U B T O T A L	3.71	3.71	3.71	3.71	3.71
TRANSMISSION LINE SYSTEM (T/L LENGTH 25.8 KM)					
TRANSMISSION LINE	0.59	0.59	0.59	0.59	0.59
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.11	0.11	0.11	0.11	0.11
CONTINGENCIES	0.15	0.15	0.15	0.15	0.15
S U B T O T A L	1.12	1.12	1.12	1.12	1.12
T O T A L	17.82	19.29	24.09	30.12	34.15
EVALUATION INDICES					
U S D / K W	3489.8	2414.0	1827.7	1494.6	1392.6
U S D / K W H	0.566	0.534	0.548	0.573	0.600

PROJECT NAME : BANTAY
 PROJECT ID : 2-008-07-24-0
 TYPE : RESERVOIR

(UNIT : MILLION USD)

 * SUMMARY TABLE OF COST ESTIMATE *

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP (MW))	(39.0)	(37.3)	(38.5)	(39.7)	(36.1)	(37.9)	(39.6)	(34.8)	(37.2)	(39.3)
STORAGE DAM	16.19	15.12	15.66	16.19	14.56	15.43	16.19	13.93	15.18	16.19
SPILLWAY	8.93	8.69	8.81	8.93	8.57	8.76	8.93	8.43	8.70	8.93
DIVERSION TUNNEL	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98
INTAKE (PRESSURE TYPE)	3.07	3.10	3.02	2.94	3.03	2.92	2.81	2.96	2.83	2.68
HEADRACE TUNNEL (PRESSURE)	3.34	3.33	3.31	3.29	3.30	3.27	3.24	3.27	3.23	3.19
SURGE TANK	2.40	2.39	2.37	2.35	2.36	2.33	2.30	2.33	2.28	2.25
PENSTOCK	1.56	1.51	1.53	1.56	1.49	1.52	1.56	1.47	1.51	1.56
(PRESSURE SHAFT)	(0.73)	(0.72)	(0.73)	(0.73)	(0.72)	(0.73)	(0.73)	(0.72)	(0.73)	(0.73)
(STEEL LINER)	(0.83)	(0.79)	(0.81)	(0.83)	(0.77)	(0.80)	(0.83)	(0.75)	(0.79)	(0.82)
POWERHOUSE BUILDING	4.20	4.01	4.09	4.16	3.91	4.02	4.12	3.80	3.95	4.08
(SUPER STRUCTURE)	(1.87)	(1.78)	(1.82)	(1.85)	(1.74)	(1.79)	(1.83)	(1.69)	(1.76)	(1.81)
(SUB STRUCTURE)	(2.33)	(2.23)	(2.27)	(2.31)	(2.17)	(2.23)	(2.23)	(2.11)	(2.20)	(2.27)
MISCELLANEOUS CIVIL WORK	2.33	2.26	2.29	2.32	2.21	2.26	2.31	2.16	2.23	2.29
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	18.14	17.57	17.76	17.94	17.21	17.50	17.74	16.83	17.22	17.52
ENGINEERING/ADMINISTRATION	8.39	8.12	8.23	8.33	7.95	8.12	8.27	7.77	8.01	8.21
CONTINGENCIES	15.10	14.62	14.81	15.00	14.31	14.62	14.89	13.98	14.43	14.78
S U B T O T A L	90.63	87.69	88.85	89.99	85.86	87.73	89.33	83.90	86.56	88.65

ACCESS ROAD (ROAD LENGTH 0. KM)	CONSTRUCTION COST	ENGINEERING/ADMINISTRATION	CONTINGENCIES	S U B T O T A L
	0.	0.	0.	0.
	0.	0.	0.	0.
	0.	0.	0.	0.
	0.	0.	0.	0.

TRANSMISSION LINE SYSTEM (T/L LENGTH 50.4 KM)

TRANSMISSION LINE	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32
SWITCHYARD AND SUBSTATION	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
ENGINEERING/ADMINISTRATION	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
CONTINGENCIES	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
S U B T O T A L	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70
T O T A L	94.33	91.39	92.55	93.63	89.56	91.43	93.02	87.60	90.26	92.35

EVALUATION INDICES

U S D / K W	2368.5	2451.9	2403.6	2359.1	2483.4	2412.6	2350.9	2516.4	2424.3	2347.7
U S D / K W H	0.964	0.994	0.974	0.955	1.003	0.973	0.947	1.012	0.973	0.941

PROJECT NAME : DABBA
 PROJECT ID : 2-008-08-25-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(60.3)	(41.5)	(50.0)	(59.6)	(38.3)	(47.8)	(58.3)	(35.2)	(45.5)	(56.9)
STORAGE DAM	44.49	26.92	34.16	44.49	24.39	32.56	44.49	21.92	30.85	44.49
SPILLWAY	12.20	10.05	11.01	12.20	9.68	10.82	12.20	9.32	10.62	12.20
DIVERSION TUNNEL	8.60	8.60	8.60	8.60	8.60	8.60	8.60	8.60	8.60	8.60
INTAKE (PRESSURE TYPE)	2.97	3.07	2.93	2.82	2.91	2.77	2.65	2.76	2.61	2.49
HEADRACE TUNNEL (PRESSURE)	3.38	3.33	3.33	3.32	3.32	3.24	3.23	3.17	3.16	3.14
SURGE TANK	2.04	2.00	1.99	1.98	1.93	1.92	1.91	1.87	1.85	1.84
PENSTOCK	1.38	1.06	1.22	1.39	1.03	1.20	1.39	0.99	1.17	1.38
(PRESSURE SHAFT)	(0.56)	(0.49)	(0.53)	(0.56)	(0.49)	(0.53)	(0.57)	(0.48)	(0.53)	(0.57)
(STEEL LINER)	(0.83)	(0.57)	(0.69)	(0.83)	(0.54)	(0.67)	(0.82)	(0.51)	(0.65)	(0.82)
POWERHOUSE BUILDING	5.15	3.99	4.51	5.06	3.73	4.32	4.93	3.49	4.13	4.79
(SUPER STRUCTURE)	(2.29)	(1.77)	(2.00)	(2.25)	(1.66)	(1.92)	(2.19)	(1.55)	(1.84)	(2.13)
(SUB STRUCTURE)	(2.86)	(2.21)	(2.51)	(2.81)	(2.07)	(2.40)	(2.74)	(1.94)	(2.30)	(2.66)
MISCELLANEOUS CIVIL WORK	4.01	2.95	3.39	3.99	2.78	3.27	3.97	2.61	3.15	3.95
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	19.81	16.59	18.02	19.46	15.75	17.37	18.95	14.92	16.71	18.43
ENGINEERING/ADMINISTRATION	13.00	9.82	11.14	12.91	9.26	10.76	12.79	8.70	10.36	12.66
CONTINGENCIES	23.41	17.68	20.06	23.24	16.66	19.36	23.02	15.67	18.64	22.79
S U B T O T A L	140.45	106.06	120.36	139.46	99.97	118.18	138.13	94.00	111.85	136.76

ACCESS ROAD (ROAD LENGTH 14.5 KM)

CONSTRUCTION COST	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19
ENGINEERING ADMINISTRATION	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
CONTINGENCIES	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
S U B T O T A L	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13

TRANSMISSION LINE SYSTEM (T/L LENGTH 23.0 KM)

TRANSMISSION LINE	1.56	1.56	1.56	1.56	1.06	1.56	1.56	1.06	1.56	1.56
SWITCHYARD AND SUBSTATION	0.62	0.62	0.62	0.62	0.54	0.62	0.62	0.54	0.62	0.62
ENGINEERING/ADMINISTRATION	0.27	0.27	0.27	0.27	0.20	0.27	0.27	0.20	0.27	0.27
CONTINGENCIES	0.37	0.37	0.37	0.37	0.27	0.37	0.37	0.27	0.37	0.37
S U B T O T A L	2.83	2.83	2.83	2.83	2.07	2.83	2.83	2.07	2.83	2.83

T O T A L : 147.41 113.02 127.32 146.42 106.17 123.14 145.09 100.20 118.81 143.72

EVALUATION INDICES

U S D / K W	2444.2	2724.0	2544.0	2458.0	2773.4	2575.9	2488.0	2846.8	2609.5	2524.3
U S D / K W H	0.993	1.086	1.022	0.991	1.092	1.023	0.992	1.106	1.024	0.995

PROJECT NAME : DALAYA
 PROJECT ID : 2-003-03-25-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP (MW))	(128.0)	(83.5)	(100.9)	(122.9)	(72.3)	(91.6)	(116.2)	(58.4)	(78.5)	(104.0)
STORAGE DAM	142.54	81.20	100.97	142.54	67.66	90.81	142.54	53.80	80.52	142.54
SPILLWAY	20.08	16.32	17.69	20.08	15.23	17.01	20.08	13.96	16.26	20.08
DIVERSION TUNNEL	6.77	6.77	6.77	6.77	6.77	6.77	6.77	6.77	6.77	6.77
INTAKE (PRESSURE TYPE)	3.40	3.61	3.16	2.81	3.27	2.79	2.44	2.81	2.33	2.01
HEADRACE TUNNEL (PRESSURE)	3.80	2.95	2.94	2.92	2.80	2.79	2.77	2.56	2.52	2.52
SURGE TANK	2.01	1.83	1.80	1.77	1.70	1.67	1.64	1.50	1.47	1.44
PENSTOCK	4.66	2.64	3.27	4.06	2.40	3.07	3.94	2.08	2.76	3.65
(PRESSURE SHAFT)	(1.25)	(0.66)	(0.72)	(0.78)	(0.64)	(0.71)	(0.78)	(0.62)	(0.70)	(0.76)
(STEEL LINER)	(3.40)	(1.98)	(2.54)	(3.27)	(1.75)	(2.35)	(3.16)	(1.45)	(2.06)	(2.89)
POWERHOUSE BUILDING	8.31	4.31	4.88	5.55	3.82	4.46	5.21	3.18	3.86	4.64
(SUPER STRUCTURE)	(3.69)	(1.91)	(2.17)	(2.47)	(1.70)	(1.98)	(2.32)	(1.41)	(1.72)	(2.06)
(SUB STRUCTURE)	(4.62)	(2.39)	(2.71)	(3.08)	(2.12)	(2.48)	(2.90)	(1.77)	(2.15)	(2.58)
MISCELLANEOUS CIVIL WORK	9.58	5.99	7.07	9.33	5.18	6.47	9.27	4.33	5.83	9.18
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	26.95	21.48	23.33	25.42	19.48	21.60	23.94	16.73	19.05	21.49
ENGINEERING/ADMINISTRATION	26.33	18.40	21.49	25.91	16.04	19.68	25.75	13.46	17.67	25.48
CONTINGENCIES	50.89	33.12	38.68	49.43	28.87	35.42	48.87	24.24	31.81	47.96
S U B T O T A L	305.31	198.70	232.06	296.59	173.23	212.54	293.22	145.42	190.88	287.77

ACCESS ROAD (ROAD LENGTH 30.0 KM)

CONSTRUCTION COST	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60
ENGINEERING ADMINISTRATION	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
CONTINGENCIES	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43
S U B T O T A L	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55	8.55

TRANSMISSION LINE SYSTEM (T/L LENGTH 24.0 KM)

TRANSMISSION LINE	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
ENGINEERING/ADMINISTRATION	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
CONTINGENCIES	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61
S U B T O T A L	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69

T O T A L	318.56	211.94	245.30	309.83	186.47	225.78	306.46	156.88	204.13	301.02
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EVALUATION INDICES

U S D / K W	2489.7	2539.3	2431.4	2520.8	2578.7	2465.4	2637.5	2685.8	2599.2	2894.5
U S D / K W H	1.525	1.486	1.441	1.503	1.465	1.424	1.532	1.447	1.432	1.604

PROJECT NAME : TUGUEGARAO
 PROJECT ID : 2-008-08-27-0
 TYPE : RUN-OF-RIVER

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E				
	1	2	3	4	5
POWER DEVELOPMENT (INST. CAP.(MW))	(1.8)	(2.9)	(4.6)	(6.8)	(9.2)
DIVERSION DAM/WEIR	0.45	0.48	0.52	0.56	0.60
INTAKE (NON-PRESSURE TYPE)	0.13	0.18	0.25	0.32	0.39
HEADRACE TUNNEL (NON-PRES.)	2.24	2.24	2.65	3.18	3.88
HEAD TANK	0.11	0.16	0.21	0.26	0.31
PENSTOCK	0.57	0.61	0.73	0.85	0.98
(PRESSURE SHAFT)	(0.38)	(0.38)	(0.43)	(0.49)	(0.53)
(STEEL LINER)	(0.19)	(0.23)	(0.29)	(0.37)	(0.45)
POWERHOUSE BUILDING	0.09	0.15	0.35	0.51	0.85
(SUPER STRUCTURE)	(0.04)	(0.07)	(0.15)	(0.23)	(0.38)
(SUB STRUCTURE)	(0.05)	(0.09)	(0.19)	(0.28)	(0.47)
MISCELLANEOUS CIVIL WORK	0.18	0.19	0.24	0.28	0.35
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.
POWER EQUIPMENT	0.68	1.09	1.55	2.33	3.06
ENGINEERING/ADMINISTRATION	0.56	0.64	0.82	1.04	1.30
CONTINGENCIES	1.00	1.15	1.48	1.87	2.35
S U B T O T A L	6.01	6.89	8.91	11.22	14.08

ACCESS: ROAD (ROAD LENGTH 37.0 KM)

CONSTRUCTION COST	8.14	8.14	8.14	8.14	8.14
ENGINEERING ADMINISTRATION	0.65	0.65	0.65	0.65	0.65
CONTINGENCIES	1.76	1.76	1.76	1.76	1.76
S U B T O T A L	10.55	10.55	10.55	10.55	10.55

TRANSMISSION LINE SYSTEM (T/L LENGTH 16.0 KM)

TRANSMISSION LINE	0.37	0.37	0.37	0.37	0.37
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.08	0.08	0.08	0.08	0.08
CONTINGENCIES	0.11	0.11	0.11	0.11	0.11
S U B T O T A L	0.83	0.83	0.83	0.83	0.83

T O T A L : 17.38 18.27 20.28 22.59 25.45

EVALUATION INDICES

U S D / K W	9930.1	6272.5	4372.9	3321.2	2755.8
U S D / K W H	1.610	1.429	1.322	1.263	1.255

PROJECT NAME : SAN PABLO
 PROJECT ID : 2-008-09-28-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP(MW))	(21.3)	(15.9)	(18.2)	(21.1)	(15.1)	(17.6)	(20.7)	(14.3)	(16.9)	(20.1)
STORAGE DAM	298.14	228.58	249.86	298.14	217.60	241.71	298.14	206.12	234.17	298.14
SPILLWAY	17.28	15.38	16.00	17.28	15.05	15.77	17.28	14.71	15.55	17.28
DIVERSION TUNNEL	10.74	10.74	10.74	10.74	10.74	10.74	10.74	10.74	10.74	10.74
INTAKE (PRESSURE TYPE)	0.74	0.97	0.81	0.66	0.94	0.77	0.62	0.90	0.73	0.57
HEADRACE TUNNEL (PRESSURE)	1.24	1.24	1.23	1.22	1.21	1.21	1.19	1.18	1.18	1.16
SURGE TANK	0.37	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.34
PENSTOCK	1.41	1.11	1.26	1.42	1.09	1.24	1.41	1.06	1.21	1.40
(PRESSURE SHAFT)	(0.58)	(0.52)	(0.55)	(0.59)	(0.51)	(0.55)	(0.59)	(0.51)	(0.55)	(0.58)
(STEEL LINER)	(0.83)	(0.59)	(0.70)	(0.83)	(0.57)	(0.69)	(0.83)	(0.55)	(0.67)	(0.81)
POWERHOUSE BUILDING	0.97	0.80	0.87	0.96	0.77	0.85	0.94	0.73	0.81	0.91
(SUPER STRUCTURE)	(0.43)	(0.35)	(0.39)	(0.43)	(0.34)	(0.38)	(0.42)	(0.32)	(0.36)	(0.40)
(SUB STRUCTURE)	(0.54)	(0.44)	(0.49)	(0.53)	(0.43)	(0.47)	(0.52)	(0.40)	(0.45)	(0.51)
MISCELLANEOUS CIVIL WORK	16.54	12.96	14.06	16.54	12.39	13.63	16.53	11.79	13.24	16.53
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	5.34	4.66	4.95	5.25	4.50	4.81	5.14	4.32	4.65	5.00
ENGINEERING/ADMINISTRATION	33.17	29.17	30.45	33.16	28.49	29.96	33.15	27.75	29.50	33.13
CONTINGENCIES	77.19	61.20	66.12	77.15	58.63	64.21	77.10	55.93	62.42	77.04
S U B T O T A L	463.13	367.18	396.73	452.89	351.76	365.27	462.61	335.58	374.55	462.24

ACCESS ROAD (ROAD LENGTH 20.0 KM)

CONSTRUCTION COST	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
ENGINEERING ADMINISTRATION	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
CONTINGENCIES	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
S U B T O T A L	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70

TRANSMISSION LINE SYSTEM (T/L LENGTH 15.0 KM)

TRANSMISSION LINE	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.06	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
CONTINGENCIES	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
S U B T O T A L	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80

T O T A L : 469.63 373.68 403.22 469.39 358.28 391.77 469.11 342.08 381.05 468.74

EVALUATION INDICES

U S D / K W	22099.0	23586.4	22095.3	22234.9	23712.2	22216.9	22643.7	24001.4	22552.6	23264.6
U S D / K W H	4.714	4.961	4.681	4.722	4.958	4.580	4.781	4.974	4.714	4.875

PROJECT NAME : TUNAUINI-1
 PROJECT ID : 2-008-11-28-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(63.7)	(49.4)	(57.7)	(67.9)	(46.4)	(55.2)	(65.8)	(43.3)	(52.7)	(64.0)
STORAGE DAM	125.70	82.61	98.03	125.70	76.50	93.73	125.70	70.13	89.11	125.70
SPILLWAY	17.43	14.93	15.91	17.43	14.52	15.66	17.43	14.07	15.37	17.43
DIVERSION TUNNEL	10.62	10.62	10.62	10.62	10.62	10.62	10.62	10.62	10.62	10.62
INTAKE (PRESSURE TYPE)	2.04	2.34	2.07	1.82	2.24	1.95	1.70	2.13	1.83	1.56
HEADRACE TUNNEL (PRESSURE)	3.25	3.17	3.16	3.15	3.10	3.08	3.07	3.02	3.00	2.98
SURGE TANK	1.26	1.23	1.22	1.20	1.19	1.18	1.16	1.15	1.13	1.12
PENSTOCK	2.03	1.43	1.72	2.08	1.38	1.68	2.03	1.32	1.63	2.01
(PRESSURE SHAFT)	(0.53)	(0.45)	(0.50)	(0.54)	(0.45)	(0.50)	(0.54)	(0.45)	(0.50)	(0.54)
(STEEL LINER)	(1.49)	(0.98)	(1.22)	(1.51)	(0.93)	(1.18)	(1.49)	(0.87)	(1.14)	(1.47)
POWERHOUSE BUILDING	3.23	2.56	2.84	3.14	2.43	2.73	3.06	2.30	2.61	2.96
(SUPER STRUCTURE)	(1.44)	(1.14)	(1.26)	(1.40)	(1.08)	(1.21)	(1.36)	(1.02)	(1.16)	(1.32)
(SUB STRUCTURE)	(1.79)	(1.42)	(1.58)	(1.75)	(1.35)	(1.51)	(1.70)	(1.28)	(1.45)	(1.65)
MISCELLANEOUS CIVIL WORK	8.28	5.95	6.78	8.28	5.60	6.53	8.24	5.24	6.27	8.22
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	15.89	13.50	14.45	15.45	12.92	13.94	15.03	12.33	13.43	14.59
ENGINEERING/ADMINISTRATION	23.72	17.29	19.60	23.60	16.31	18.89	23.50	15.29	18.13	23.40
CONTINGENCIES	42.69	31.13	35.28	42.49	29.36	34.00	42.31	27.52	32.63	42.13
S U B T O T A L	256.15	166.78	211.67	254.92	176.17	203.99	253.65	165.11	195.77	252.75

ACCESS ROAD (ROAD LENGTH 24.5 KM)

CONSTRUCTION COST	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39
ENGINEERING ADMINISTRATION	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
CONTINGENCIES	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
S U B T O T A L	6.99	6.99	6.99	6.99	6.99	6.99	6.99	6.99	6.99	6.99

TRANSMISSION LINE SYSTEM (T/L LENGTH 27.0 KM)

TRANSMISSION LINE	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
SWITCHYARD AND SUBSTATION	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
ENGINEERING/ADMINISTRATION	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
CONTINGENCIES	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
S U B T O T A L	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18

T O T A L : 266.31 196.95 221.83 265.09 186.34 214.15 264.01 175.28 205.93 262.92

EVALUATION INDICES

U S D / K W	3876.6	3986.8	3846.3	3929.3	4016.4	3876.1	4012.2	4043.6	3906.4	4107.7
U S O / K W H	2.368	2.370	2.308	2.376	2.355	2.298	2.391	2.337	2.287	2.417

PROJECT NAME : NATONIN
 PROJECT ID : 2-008-12-30-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(5.0)	(5.0)	(5.0)	(5.0)	(4.6)	(4.8)	(4.9)	(4.3)	(4.5)	(4.8)
STORAGE DAM	24.10	23.70	23.84	24.10	22.46	23.20	24.10	21.20	22.58	24.10
SPILLWAY	9.29	9.22	9.25	9.29	9.01	9.14	9.29	8.79	9.03	9.29
DIVERSION TUNNEL	7.21	7.21	7.21	7.21	7.21	7.21	7.21	7.21	7.21	7.21
INTAKE (PRESSURE TYPE)	0.48	0.47	0.46	0.46	0.44	0.43	0.41	0.41	0.39	0.36
HEADRACE TUNNEL (PRESSURE)	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
SURGE TANK	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.23	0.23	0.22
PENSTOCK	0.40	0.40	0.40	0.40	0.39	0.40	0.40	0.38	0.39	0.40
(PRESSURE SHAFT)	(0.25)	(0.25)	(0.25)	(0.26)	(0.25)	(0.25)	(0.25)	(0.25)	(0.25)	(0.25)
(STEEL LINER)	(0.15)	(0.15)	(0.15)	(0.15)	(0.14)	(0.14)	(0.15)	(0.13)	(0.14)	(0.15)
POWERHOUSE BUILDING	0.35	0.34	0.35	0.35	0.32	0.33	0.34	0.30	0.31	0.32
(SUPER STRUCTURE)	(0.16)	(0.15)	(0.15)	(0.15)	(0.14)	(0.15)	(0.15)	(0.13)	(0.14)	(0.14)
(SUB STRUCTURE)	(0.19)	(0.19)	(0.19)	(0.19)	(0.18)	(0.18)	(0.19)	(0.17)	(0.17)	(0.18)
MISCELLANEOUS CIVIL WORK	2.13	2.11	2.11	2.13	2.03	2.07	2.12	1.95	2.03	2.12
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	2.55	2.53	2.53	2.54	2.39	2.42	2.45	2.26	2.30	2.34
ENGINEERING/ADMINISTRATION	5.91	5.84	5.86	5.91	5.63	5.74	5.88	5.40	5.62	5.86
CONTINGENCIES	10.64	10.52	10.55	10.63	10.13	10.33	10.59	9.73	10.12	10.55
S U B T O T A L	62.82	63.10	63.33	63.78	60.76	62.01	63.54	58.37	60.71	63.29

ACCESS ROAD (ROAD LENGTH 17.0 KM)

CONSTRUCTION COST	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74
ENGINEERING ADMINISTRATION	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
CONTINGENCIES	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
S U B T O T A L	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85

TRANSMISSION LINE SYSTEM (T/L LENGTH 8.0 KM)

TRANSMISSION LINE	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
CONTINGENCIES	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
S U B T O T A L	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59

T O T A L

	69.25	68.53	68.76	69.22	66.19	67.44	68.98	63.81	66.15	68.72
EVALUATION INDICES										
U S D / K W	13753.7	13842.1	13775.0	13720.0	14373.6	14186.7	14033.4	14979.3	14673.5	14443.3
U S D / K W H	2.880	2.893	2.880	2.868	2.971	2.932	2.899	3.057	2.994	2.945

PROJECT NAME : PASTOR
 PROJECT ID : 2-008-12-31-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP (MW))	(5.7)	(5.2)	(5.9)	(6.6)	(4.9)	(5.7)	(6.5)	(4.5)	(5.3)	(6.3)
STORAGE DAM	37.79	26.97	31.17	37.79	25.09	30.04	37.79	23.13	28.99	37.79
SPILLWAY	12.95	11.36	12.04	12.95	11.06	11.87	12.95	10.75	11.69	12.95
DIVERSION TUNNEL	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16
INTAKE (PRESSURE TYPE)	0.41	0.46	0.42	0.38	0.44	0.40	0.36	0.41	0.37	0.33
HEADRACE TUNNEL (PRESSURE)	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
SURGE TANK	0.22	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.19
PENSTOCK	0.55	0.49	0.52	0.55	0.48	0.51	0.55	0.47	0.50	0.55
(PRESSURE SHAFT)	(0.32)	(0.30)	(0.31)	(0.32)	(0.30)	(0.31)	(0.32)	(0.29)	(0.31)	(0.32)
(STEEL LINER)	(0.23)	(0.19)	(0.21)	(0.23)	(0.18)	(0.21)	(0.23)	(0.17)	(0.20)	(0.23)
POWERHOUSE BUILDING	0.38	0.31	0.34	0.37	0.30	0.33	0.36	0.28	0.31	0.34
(SUPER STRUCTURE)	(0.17)	(0.14)	(0.15)	(0.16)	(0.13)	(0.15)	(0.16)	(0.12)	(0.14)	(0.15)
(SUB STRUCTURE)	(0.21)	(0.17)	(0.19)	(0.20)	(0.17)	(0.18)	(0.20)	(0.15)	(0.17)	(0.19)
MISCELLANEOUS CIVIL WORK	3.13	2.51	2.75	3.13	2.39	2.68	3.13	2.28	2.62	3.12
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	2.47	2.18	2.30	2.42	2.10	2.23	2.37	1.97	2.12	2.27
ENGINEERING/ADMINISTRATION	8.53	6.85	7.51	8.52	6.55	7.32	8.50	6.23	7.14	8.48
CONTINGENCIES	15.35	12.33	13.51	15.33	11.78	13.18	15.31	11.22	12.85	15.27
S U B T O T A L	92.09	73.98	81.08	91.97	70.70	79.09	91.85	67.30	77.10	91.62

ACCESS ROAD (ROAD LENGTH 13.0 KM)

CONSTRUCTION COST	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86
ENGINEERING ADMINISTRATION	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
CONTINGENCIES	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
S U B T O T A L	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71

TRANSMISSION LINE SYSTEM (T/L LENGTH 41.0 KM)

TRANSMISSION LINE	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
CONTINGENCIES	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
S U B T O T A L	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57

T O T A L : 97.37 79.25 86.36 97.25 75.98 84.36 97.13 72.58 82.37 96.89

EVALUATION INDICES

U S D / K W	14449.1	15362.8	14743.5	14628.4	15561.8	14906.7	14852.1	16116.5	15451.0	15457.7
U S D / K W H	2.976	3.121	3.011	2.995	3.140	3.025	3.022	3.205	3.094	3.104

PROJECT NAME : TABUK
 PROJECT ID : 2-008-13-32-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(36.6)	(33.9)	(35.0)	(36.2)	(32.6)	(34.0)	(35.6)	(31.3)	(33.0)	(35.0)
STORAGE DAM	20.61	19.22	19.87	20.61	18.60	19.44	20.61	17.98	19.01	20.61
SPILLWAY	11.46	11.13	11.28	11.46	10.98	11.18	11.46	10.84	11.08	11.46
DIVERSION TUNNEL	8.09	8.09	8.09	8.09	8.09	8.09	8.09	8.09	8.09	8.09
INTAKE (PRESSURE TYPE)	1.96	1.99	1.91	1.84	1.93	1.83	1.75	1.87	1.75	1.65
HEADRACE TUNNEL (PRESSURE)	1.99	1.96	1.95	1.94	1.93	1.92	1.90	1.89	1.88	1.85
SURGE TANK	1.29	1.27	1.26	1.25	1.24	1.23	1.22	1.21	1.20	1.18
PENSTOCK	0.80	0.75	0.77	0.80	0.73	0.76	0.80	0.71	0.75	0.80
(PRESSURE SHAFT)	(0.30)	(0.29)	(0.30)	(0.30)	(0.29)	(0.30)	(0.30)	(0.29)	(0.30)	(0.30)
(STEEL LINER)	(0.50)	(0.46)	(0.48)	(0.50)	(0.44)	(0.47)	(0.50)	(0.43)	(0.46)	(0.49)
POWERHOUSE BUILDING	2.26	2.13	2.17	2.22	2.06	2.11	2.17	1.99	2.05	2.12
(SUPER STRUCTURE)	(1.00)	(0.95)	(0.97)	(0.99)	(0.91)	(0.94)	(0.96)	(0.88)	(0.91)	(0.94)
(SUB STRUCTURE)	(1.25)	(1.18)	(1.21)	(1.23)	(1.14)	(1.17)	(1.21)	(1.10)	(1.14)	(1.18)
MISCELLANEOUS CIVIL WORK	2.42	2.33	2.37	2.41	2.28	2.33	2.40	2.23	2.29	2.39
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	13.00	12.46	12.61	12.76	12.10	12.29	12.49	11.74	11.97	12.22
ENGINEERING/ADMINISTRATION	7.98	7.66	7.79	7.92	7.49	7.65	7.86	7.32	7.51	7.80
CONTINGENCIES	14.37	13.79	14.01	14.26	13.48	13.76	14.15	13.17	13.51	14.04
S U B T O T A L	86.23	82.77	84.08	85.57	80.90	82.58	84.90	79.04	81.08	84.21

ACCESS ROAD (ROAD LENGTH 12.5 KM)

CONSTRUCTION COST	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
ENGINEERING ADMINISTRATION	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
CONTINGENCIES	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59
S U B T O T A L	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56

TRANSMISSION LINE SYSTEM (T/L LENGTH 12.0 KM)

TRANSMISSION LINE	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
SWITCHYARD AND SUBSTATION	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
ENGINEERING/ADMINISTRATION	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
CONTINGENCIES	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
S U B T O T A L	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41

T O T A L : 91.21 87.75 89.06 90.55 85.88 87.56 89.87 84.01 86.05 89.19

EVALUATION INDICES

U S D / K W	2489.2	2590.6	2543.0	2500.1	2637.9	2576.3	2524.3	2687.2	2611.2	2551.0
U S D / K W H	1.476	1.521	1.494	1.469	1.534	1.500	1.469	1.548	1.506	1.470

PROJECT NAME : BANATAO
 PROJECT ID : 2-008-13-33-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST.CAP(MW))	(15.2)	(12.9)	(13.9)	(15.0)	(12.2)	(13.4)	(14.7)	(11.2)	(12.5)	(14.0)
STORAGE DAM	5.21	4.29	4.69	5.21	4.06	4.54	5.21	3.74	4.38	5.21
SPILLWAY	7.01	6.55	6.76	7.01	6.43	6.68	7.01	6.25	6.60	7.01
DIVERSION TUNNEL	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19
INTAKE (PRESSURE TYPE)	1.35	1.38	1.33	1.29	1.32	1.27	1.22	1.24	1.18	1.13
HEADRACE TUNNEL (PRESSURE)	0.98	0.97	0.97	0.97	0.95	0.95	0.94	0.92	0.91	0.90
SURGE TANK	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.82	0.81	0.79
PENSTOCK	0.44	0.41	0.43	0.44	0.40	0.42	0.44	0.39	0.41	0.43
(PRESSURE SHAFT)	(0.23)	(0.22)	(0.22)	(0.23)	(0.21)	(0.22)	(0.23)	(0.21)	(0.22)	(0.22)
(STEEL LINER)	(0.22)	(0.19)	(0.20)	(0.22)	(0.19)	(0.20)	(0.21)	(0.17)	(0.19)	(0.21)
POWERHOUSE BUILDING	1.16	1.03	1.08	1.13	0.99	1.04	1.11	0.91	0.98	1.05
(SUPER STRUCTURE)	(0.51)	(0.46)	(0.48)	(0.50)	(0.44)	(0.46)	(0.49)	(0.41)	(0.44)	(0.47)
(SUB STRUCTURE)	(0.64)	(0.57)	(0.60)	(0.63)	(0.55)	(0.58)	(0.61)	(0.51)	(0.54)	(0.58)
MISCELLANEOUS CIVIL WORK	1.11	1.04	1.07	1.11	1.01	1.05	1.10	0.97	1.02	1.09
CONSTRUCTION FACILITIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POWER EQUIPMENT	7.84	7.24	7.45	7.67	6.97	7.23	7.49	6.53	6.83	7.13
ENGINEERING/ADMINISTRATION	3.90	3.62	3.73	3.86	3.53	3.65	3.82	3.37	3.54	3.74
CONTINGENCIES	7.02	6.52	6.72	6.95	6.35	6.57	6.87	6.07	6.37	6.74
S U B T O T A L	42.12	39.14	40.29	41.69	38.07	39.45	41.25	36.41	38.22	40.42

ACCESS ROAD (ROAD LENGTH 17.0 KM)

CONSTRUCTION COST	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74
ENGINEERING ADMINISTRATION	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
CONTINGENCIES	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
S U B T O T A L	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85

TRANSMISSION LINE SYSTEM (T/L LENGTH 18.0 KM)

TRANSMISSION LINE	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
CONTINGENCIES	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
S U B T O T A L	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88

T O T A L : 47.85 44.87 46.02 47.42 43.81 45.18 46.98 42.14 43.95 46.15

EVALUATION INDICES

U S D / K W	3144.5	3469.8	3307.9	3171.3	3576.4	3375.0	3204.5	3775.4	3512.6	3303.1
U S D / K W H	1.784	1.942	1.855	1.780	1.979	1.873	1.779	2.043	1.906	1.793

PROJECT NAME : MALIANO
 PROJECT ID : 2-008-14-34-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP (MW))	(176.9)	(140.0)	(156.5)	(175.3)	(131.8)	(150.6)	(172.0)	(123.7)	(144.3)	(168.2)
STORAGE DAM	153.24	120.63	133.47	153.24	113.63	129.37	153.24	106.61	124.51	153.24
SPILLWAY	24.42	22.11	23.06	24.42	21.57	22.76	24.42	21.00	22.40	24.42
DIVERSION TUNNEL	17.20	17.20	17.20	17.20	17.20	17.20	17.20	17.20	17.20	17.20
INTAKE (PRESSURE TYPE)	5.32	5.74	5.37	5.04	5.51	5.10	4.73	5.23	4.83	4.44
HEADRACE TUNNEL (PRESSURE)	5.76	5.68	5.66	5.65	5.54	5.53	5.51	5.40	5.39	5.36
SURGE TANK	3.37	3.33	3.30	3.27	3.22	3.19	3.15	3.11	3.07	3.04
PENSTOCK	9.16	7.52	8.28	9.15	7.22	8.08	9.06	6.92	7.86	8.95
(PRESSURE SHAFT)	(2.18)	(2.05)	(2.12)	(2.16)	(2.03)	(2.11)	(2.18)	(2.02)	(2.09)	(2.17)
(STEEL LINER)	(6.98)	(5.47)	(6.16)	(6.97)	(5.19)	(5.97)	(6.89)	(4.91)	(5.77)	(6.78)
POWERHOUSE BUILDING	12.31	10.46	11.26	12.12	9.94	10.85	11.83	9.42	10.42	11.52
(SUPER STRUCTURE)	(5.47)	(4.65)	(5.00)	(5.38)	(4.42)	(4.82)	(5.26)	(4.18)	(4.63)	(5.12)
(SUB STRUCTURE)	(6.84)	(5.81)	(6.26)	(6.74)	(5.52)	(6.03)	(6.57)	(5.23)	(5.79)	(6.40)
MISCELLANEOUS CIVIL WORK	11.54	9.63	10.38	11.50	9.19	10.10	11.46	8.75	9.78	11.41
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	39.59	35.32	37.07	38.94	33.85	35.88	38.00	32.39	34.63	37.01
ENGINEERING/ADMINISTRATION	29.46	26.91	27.94	29.38	26.26	27.53	29.27	25.59	27.06	29.16
CONTINGENCIES	62.27	52.91	56.60	61.98	50.63	55.12	61.58	48.33	53.43	61.15
S U B T O T A L	373.64	317.46	339.60	371.90	303.77	330.70	369.46	290.00	320.59	366.51

ACCESS ROAD (ROAD LENGTH 34.0 KM)

CONSTRUCTION COST	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48
ENGINEERING ADMINISTRATION	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
CONTINGENCIES	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62
S U B T O T A L	9.69	9.69	9.69	9.69	9.69	9.69	9.69	9.69	9.69	9.69

TRANSMISSION LINE SYSTEM (T/L LENGTH 70.0 KM)

TRANSMISSION LINE	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
ENGINEERING/ADMINISTRATION	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
CONTINGENCIES	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47
S U B T O T A L	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29

T O T A L : 394.63 338.44 360.59 392.89 324.76 351.69 390.45 310.99 341.58 367.89

EVALUATION INDICES

U S D / K W	2230.3	2416.9	2304.4	2241.2	2463.4	2335.4	2270.2	2513.9	2367.6	2306.2
U S D / K W H	0.914	0.973	0.934	0.912	0.980	0.936	0.914	0.987	0.938	0.919

PROJECT NAME : ILAGAN-1
 PROJECT ID : 2-008-14-35-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP (MW))	(208.4)	(193.3)	(200.4)	(208.2)	(186.7)	(195.9)	(206.6)	(180.1)	(191.1)	(204.2)
STORAGE DAM	149.14	138.43	142.77	149.14	132.83	138.98	149.14	127.57	135.05	149.14
SPILLWAY	24.15	23.43	23.72	24.15	23.05	23.46	24.15	22.88	23.20	24.15
DIVERSION TUNNEL	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.51
INTAKE (PRESSURE TYPE)	4.83	4.95	4.72	4.50	4.81	4.51	4.22	4.67	4.31	3.98
HEADRAGE TUNNEL (PRESSURE)	6.13	6.04	6.03	6.02	5.94	5.93	5.92	5.84	5.83	5.81
SURGE TANK	2.77	2.73	2.71	2.70	2.67	2.65	2.63	2.61	2.58	2.56
PENSTOCK	10.34	9.56	10.00	10.48	9.31	9.89	10.53	9.06	9.75	10.53
(PRESSURE SHAFT)	(2.09)	(2.03)	(2.07)	(2.11)	(2.02)	(2.07)	(2.12)	(2.01)	(2.07)	(2.13)
(STEEL LINER)	(8.25)	(7.53)	(7.93)	(8.37)	(7.29)	(7.82)	(8.41)	(7.06)	(7.68)	(8.40)
POWERHOUSE BUILDING	12.55	11.86	12.14	12.44	11.50	11.86	12.28	11.14	11.57	12.08
(SUPER STRUCTURE)	(5.58)	(5.27)	(5.39)	(5.53)	(5.11)	(5.27)	(5.46)	(4.95)	(5.14)	(5.37)
(SUB STRUCTURE)	(6.97)	(6.59)	(6.74)	(6.91)	(6.39)	(6.59)	(6.82)	(6.19)	(6.43)	(6.71)
MISCELLANEOUS CIVIL WORK	11.27	10.63	10.88	11.25	10.28	10.64	11.22	9.95	10.39	11.19
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	37.76	36.17	36.73	37.32	35.24	35.97	36.78	34.31	35.17	36.18
ENGINEERING/ADMINISTRATION	29.04	28.18	28.52	28.99	27.71	28.19	28.93	27.25	27.84	28.86
CONTINGENCIES	60.70	57.50	58.75	60.50	55.77	57.52	60.26	54.12	56.24	59.99
S U B T O T A L	364.20	344.99	352.48	363.00	334.52	345.09	361.56	324.71	337.46	359.96

ACCESS ROAD (ROAD LENGTH 76.0 KM)

CONSTRUCTION COST	16.72	16.72	16.72	16.72	16.72	16.72	16.72	16.72	16.72	16.72
ENGINEERING ADMINISTRATION	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34
CONTINGENCIES	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61
S U B T O T A L	21.67	21.67	21.67	21.67	21.67	21.67	21.67	21.67	21.67	21.67

TRANSMISSION LINE SYSTEM (T/L LENGTH 66.0 KM)

TRANSMISSION LINE	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33	7.33
SWITCHYARD AND SUBSTATION	0.56	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
ENGINEERING/ADMINISTRATION	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
CONTINGENCIES	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
S U B T O T A L	10.72	10.72	10.72	10.72	10.72	10.72	10.72	10.72	10.72	10.72

T O T A L : 395.59 377.38 384.87 395.39 367.01 377.48 393.95 357.10 369.85 392.35

EVALUATION INDICES

U S D / K W	1902.8	1952.1	1920.9	1899.5	1966.2	1927.0	1906.8	1982.8	1935.8	1921.3
U S D / K W H	1.180	1.208	1.191	1.180	1.207	1.186	1.176	1.207	1.182	1.176

PROJECT NAME : ILAGAN-2
 PROJECT ID : 2-008-14-36-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP (MW))	(96.3)	(77.4)	(65.5)	(95.3)	(73.0)	(82.1)	(93.3)	(68.8)	(78.8)	(91.1)
STORAGE DAM	91.17	73.43	79.61	91.17	69.37	76.93	91.17	65.31	74.34	91.17
SPILLWAY	18.30	16.74	17.31	18.30	16.35	17.07	18.30	15.96	16.83	18.30
DIVERSION TUNNEL	11.51	11.51	11.51	11.51	11.51	11.51	11.51	11.51	11.51	11.51
INTAKE (PRESSURE TYPE)	3.17	3.50	3.23	2.99	3.36	3.06	2.80	3.22	2.90	2.63
HEADRACE TUNNEL (PRESSURE)	2.84	2.80	2.79	2.78	2.74	2.72	2.71	2.67	2.66	2.64
SURGE TANK	1.83	1.82	1.80	1.78	1.76	1.74	1.71	1.70	1.67	1.65
PENSTOCK	5.24	4.35	4.75	5.22	4.18	4.63	5.16	4.02	4.50	5.08
(PRESSURE SHAFT)	(1.20)	(1.13)	(1.17)	(1.20)	(1.12)	(1.16)	(1.19)	(1.11)	(1.15)	(1.19)
(STEEL LINER)	(4.04)	(3.22)	(3.58)	(4.02)	(3.06)	(3.46)	(3.96)	(2.90)	(3.34)	(3.89)
POWERHOUSE BUILDING	4.78	4.11	4.38	4.70	3.91	4.22	4.58	3.71	4.06	4.46
(SUPER STRUCTURE)	(2.12)	(1.83)	(1.95)	(2.09)	(1.74)	(1.88)	(2.04)	(1.65)	(1.80)	(1.98)
(SUB STRUCTURE)	(2.66)	(2.28)	(2.44)	(2.61)	(2.17)	(2.34)	(2.55)	(2.06)	(2.25)	(2.48)
MISCELLANEOUS CIVIL WORK	6.94	5.91	6.27	6.92	5.66	6.09	6.90	5.41	5.92	6.87
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	23.18	20.84	21.75	22.79	20.00	21.04	22.22	19.17	20.32	21.62
ENGINEERING/ADMINISTRATION	21.12	18.13	19.18	21.02	17.36	18.63	20.88	16.59	18.09	20.74
CONTINGENCIES	38.01	32.63	34.52	37.84	31.24	33.53	37.59	28.65	32.56	37.33
S U B T O T A L	228.09	195.78	207.11	227.02	187.44	201.17	225.53	179.12	195.34	224.00

ACCESS ROAD (ROAD LENGTH 90.0 KM)

CONSTRUCTION COST	19.80	19.80	19.80	19.80	19.80	19.80	19.80	19.80	19.80	19.80
ENGINEERING ADMINISTRATION	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58
CONTINGENCIES	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28	4.28
S U B T O T A L	25.66	25.66	25.66	25.66	25.66	25.66	25.66	25.66	25.66	25.66

TRANSMISSION LINE SYSTEM (T/L LENGTH 68.0 KM)

TRANSMISSION LINE	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55	7.55
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
ENGINEERING/ADMINISTRATION	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
CONTINGENCIES	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44
S U B T O T A L	11.01	11.01	11.01	11.01	11.01	11.01	11.01	11.01	11.01	11.01

T O T A L	264.76	232.45	243.78	263.69	224.11	237.84	262.20	211.56	232.01	260.67
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EVALUATION INDICES

U S D / K W	2749.8	3004.8	2852.5	2767.3	3069.5	2895.7	2810.1	3076.5	2945.6	2860.8
U S D / K W H	1.672	1.794	1.714	1.669	1.808	1.719	1.676	1.787	1.727	1.686

PROJECT NAME : DINAPIQUI
 PROJECT ID : 2-008-14-37-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP. (MW))	(58.3)	(54.3)	(54.6)	(54.9)	(51.2)	(51.7)	(52.1)	(47.5)	(48.1)	(48.7)
STORAGE DAM	43.97	40.06	41.56	43.97	36.93	39.46	43.97	33.74	37.26	43.97
SPILLWAY	9.64	9.27	9.41	9.64	8.96	9.21	9.64	8.62	8.99	9.64
DIVERSION TUNNEL	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57
INTAKE (PRESSURE TYPE)	0.79	0.73	0.68	0.63	0.68	0.61	0.55	0.63	0.55	0.47
HEADRACE TUNNEL (PRESSURE)	14.69	14.05	14.00	13.93	13.56	13.49	13.38	13.07	13.07	13.07
SURGE TANK	0.67	0.63	0.63	0.63	0.60	0.60	0.59	0.56	0.56	0.55
PERSTOCK	7.22	6.84	6.90	6.96	6.55	6.64	6.71	6.19	6.30	6.40
(PRESSURE SHAFT)	(1.66)	(1.53)	(1.64)	(1.65)	(1.61)	(1.62)	(1.63)	(1.58)	(1.59)	(1.60)
(STEEL LINER)	(5.56)	(5.20)	(5.26)	(5.31)	(4.94)	(5.02)	(5.09)	(4.62)	(4.71)	(4.81)
POWERHOUSE BUILDING	1.92	1.79	1.79	1.80	1.59	1.70	1.70	1.57	1.58	1.59
(SUPER STRUCTURE)	(0.85)	(0.80)	(0.80)	(0.80)	(0.75)	(0.76)	(0.76)	(0.70)	(0.70)	(0.71)
(SUB STRUCTURE)	(1.07)	(0.99)	(1.00)	(1.00)	(0.94)	(0.94)	(0.95)	(0.87)	(0.88)	(0.88)
MISCELLANEOUS CIVIL WORK	4.12	3.85	3.93	4.06	3.63	3.76	4.01	3.40	3.59	3.96
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	8.46	7.96	7.97	7.96	7.59	7.59	7.58	7.11	7.12	7.11
ENGINEERING/ADMINISTRATION	11.88	11.09	11.31	11.64	10.47	10.83	11.46	9.81	10.33	11.29
CONTINGENCIES	21.39	19.97	20.35	20.96	18.85	19.49	20.63	17.65	18.59	20.33
S U B T O T A L	128.33	119.80	122.10	125.74	113.08	116.96	123.80	105.92	111.52	121.96
ACCESS ROAD (ROAD LENGTH 40.0 KM)										
CONSTRUCTION COST	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.80
ENGINEERING ADMINISTRATION	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
CONTINGENCIES	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90
S U B T O T A L	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40	11.40
TRANSMISSION LINE SYSTEM (T/L LENGTH 67.0 KM)										
TRANSMISSION LINE	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56
SWITCHYARD AND SUBSTATION	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
ENGINEERING/ADMINISTRATION	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
CONTINGENCIES	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
S U B T O T A L	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70
T O T A L	146.43	137.90	140.20	143.84	131.18	135.06	141.90	124.03	129.62	140.06
EVALUATION INDICES										
U S D / K W	2509.8	2541.9	2568.0	2621.6	2562.1	2613.6	2726.2	2612.1	2693.5	2875.8
U S D / K W H.	1.067	1.061	1.071	1.092	1.054	1.073	1.116	1.051	1.082	1.150

PROJECT NAME : BALLASANG
 PROJECT ID : 2-008-15-36-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP (MW))	(140.5)	(115.1)	(126.1)	(139.2)	(104.4)	(117.8)	(133.5)	(93.9)	(109.2)	(127.0)
STORAGE DAM	137.41	113.05	122.36	137.41	104.70	116.81	137.41	95.91	111.11	137.41
SPILLWAY	19.27	17.77	18.34	19.27	17.19	18.00	19.27	16.58	17.64	19.27
DIVERSION TUNNEL	14.63	14.63	14.63	14.63	14.63	14.63	14.63	14.63	14.63	14.63
INTAKE (PRESSURE TYPE)	4.59	4.93	4.63	4.37	4.59	4.25	3.94	4.26	3.87	3.53
HEADRACE TUNNEL (PRESSURE)	6.80	6.71	6.70	6.68	6.41	6.40	6.37	6.11	6.10	6.06
SURGE TANK	3.10	3.06	3.04	3.02	2.88	2.88	2.83	2.70	2.67	2.64
PENSTOCK	6.29	5.31	5.76	6.29	4.98	5.52	6.15	4.65	5.27	5.98
(PRESSURE SHAFT)	(1.69)	(1.60)	(1.65)	(1.70)	(1.57)	(1.63)	(1.69)	(1.54)	(1.61)	(1.68)
(STEEL LINER)	(4.60)	(3.71)	(4.12)	(4.59)	(3.41)	(3.89)	(4.46)	(3.11)	(3.66)	(4.31)
POWERHOUSE BUILDING	10.06	8.75	9.30	9.92	8.03	8.69	9.43	7.32	8.08	8.92
(SUPER STRUCTURE)	(4.47)	(3.89)	(4.13)	(4.41)	(3.57)	(3.86)	(4.19)	(3.25)	(3.59)	(3.96)
(SUB STRUCTURE)	(5.59)	(4.86)	(5.17)	(5.51)	(4.46)	(4.83)	(5.24)	(4.07)	(4.49)	(4.95)
MISCELLANEOUS CIVIL WORK	10.11	8.71	9.24	10.08	8.17	8.66	10.00	7.61	8.47	9.92
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	33.45	30.32	31.56	32.93	28.20	29.73	31.38	26.09	27.86	29.74
ENGINEERING/ADMINISTRATION	27.39	25.41	26.18	27.33	24.55	25.57	27.14	23.23	24.93	26.94
CONTINGENCIES	54.62	47.73	50.35	54.39	44.87	48.27	53.71	41.82	46.13	53.01
S U B T O T A L	327.75	286.38	302.09	326.31	269.21	289.59	322.27	250.91	276.79	318.05

ACCESS ROAD (ROAD LENGTH 12.0 KM)

CONSTRUCTION COST	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64
ENGINEERING ADMINISTRATION	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
CONTINGENCIES	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
S U B T O T A L	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42

TRANSMISSION LINE SYSTEM (T/L LENGTH 58.0 KM)

TRANSMISSION LINE	6.44	6.44	6.44	6.44	6.44	6.44	6.44	6.44	6.44	6.44
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
ENGINEERING/ADMINISTRATION	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
CONTINGENCIES	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
S U B T O T A L	9.57	9.57	9.57	9.57	9.57	9.57	9.57	9.57	9.57	9.57

T O T A L : 340.74 299.37 315.06 339.30 282.20 302.59 335.26 263.90 289.78 331.04

EVALUATION INDICES

U S D / K W	2424.9	2600.3	2497.9	2437.2	2703.9	2569.7	2511.9	2810.5	2653.7	2605.6
U S D / K W H	1.390	1.456	1.412	1.386	1.473	1.418	1.396	1.486	1.426	1.412

PROJECT NAME : ABUAN-1
 PROJECT ID : 2-008-15-39-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP (MW))	(187.6)	(162.4)	(173.4)	(185.6)	(156.2)	(169.1)	(183.7)	(149.7)	(164.4)	(181.1)
STORAGE DAM	155.34	136.48	143.44	155.34	131.12	139.58	155.34	125.35	136.00	155.34
SPILLWAY	21.75	20.64	21.06	21.75	20.29	20.84	21.75	19.92	20.61	21.75
DIVERSION TUNNEL	12.08	12.08	12.08	12.08	12.08	12.08	12.08	12.08	12.08	12.08
INTAKE (PRESSURE TYPE)	5.02	5.24	4.90	4.57	5.08	4.69	4.31	4.92	4.49	4.06
HEADRACE TUNNEL (PRESSURE)	13.21	12.89	12.87	12.83	12.68	12.65	12.59	12.44	12.42	12.34
SURGE TANK	3.61	3.51	3.49	3.47	3.43	3.41	3.38	3.34	3.32	3.28
PENSTOCK	8.91	7.75	8.33	8.97	7.54	8.22	8.97	7.31	8.08	8.93
(PRESSURE SHAFT)	(1.99)	(1.89)	(1.95)	(2.01)	(1.88)	(1.95)	(2.01)	(1.87)	(1.94)	(2.01)
(STEEL LINER)	(6.92)	(5.86)	(6.38)	(6.97)	(5.66)	(6.27)	(6.96)	(5.45)	(6.14)	(6.92)
POWERHOUSE BUILDING	12.20	10.95	11.44	11.95	10.59	11.16	11.76	10.20	10.85	11.54
(SUPER STRUCTURE)	(5.42)	(4.87)	(5.08)	(5.31)	(4.71)	(4.96)	(5.23)	(4.53)	(4.82)	(5.13)
(SUB STRUCTURE)	(6.78)	(6.09)	(6.35)	(6.64)	(5.88)	(6.20)	(6.53)	(5.67)	(6.03)	(6.41)
MISCELLANEOUS CIVIL WORK	11.61	10.48	10.88	11.55	10.14	10.63	11.51	9.78	10.39	11.47
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	38.07	35.15	36.16	37.20	34.16	35.37	36.60	33.13	34.51	35.91
ENGINEERING/ADMINISTRATION	29.45	27.94	28.49	29.34	27.47	28.14	29.25	26.96	27.80	29.17
CONTINGENCIES	62.25	56.62	58.63	61.81	54.92	57.35	61.51	53.09	56.11	61.18
S U B T O T A L	373.49	339.74	351.78	370.85	329.50	344.13	369.05	318.54	336.66	367.05
ACCESS ROAD (ROAD LENGTH 22.5 KM)										
CONSTRUCTION COST	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95
ENGINEERING ADMINISTRATION	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
CONTINGENCIES	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
S U B T O T A L	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42
TRANSMISSION LINE SYSTEM (T/L LENGTH 27.0 KM)										
TRANSMISSION LINE	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
ENGINEERING/ADMINISTRATION	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
CONTINGENCIES	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
S U B T O T A L	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12	5.12
T O T A L	385.02	351.28	363.31	382.38	341.04	355.66	380.59	330.08	348.19	378.59
EVALUATION INDICES										
U S D / K W	2051.9	2162.9	2095.2	2059.8	2183.7	2103.0	2072.0	2205.5	2117.7	2090.5
U S D / K W H	1.277	1.322	1.286	1.267	1.323	1.281	1.265	1.323	1.279	1.266

PROJECT NAME : CATALANGAN
 PROJECT ID : 2-003-16-40-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(49.7)	(44.2)	(46.0)	(48.1)	(40.0)	(42.9)	(46.0)	(35.7)	(39.4)	(43.3)
STORAGE DAM	57.14	52.54	54.49	57.14	48.37	52.53	57.14	44.63	49.88	57.14
SPILLWAY	12.72	12.29	12.47	12.72	11.90	12.29	12.72	11.51	12.04	12.72
DIVERSION TUNNEL	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15
INTAKE (PRESSURE TYPE)	2.39	2.28	2.23	2.12	2.11	2.00	1.89	1.93	1.79	1.66
HEADRACE TUNNEL (PRESSURE)	2.34	2.24	2.23	2.23	2.13	2.13	2.12	2.02	2.01	2.00
SURGE TANK	1.44	1.35	1.35	1.34	1.27	1.26	1.25	1.18	1.16	1.15
PENSTOCK	1.84	1.69	1.75	1.82	1.59	1.68	1.78	1.49	1.60	1.72
(PRESSURE SHAFT)	(0.60)	(0.58)	(0.59)	(0.60)	(0.57)	(0.59)	(0.60)	(0.56)	(0.58)	(0.59)
(STEEL LINER)	(1.24)	(1.11)	(1.16)	(1.22)	(1.02)	(1.10)	(1.16)	(0.93)	(1.02)	(1.13)
POWERHOUSE BUILDING	2.84	2.57	2.64	2.71	2.35	2.46	2.57	2.13	2.26	2.41
(SUPER STRUCTURE)	(1.26)	(1.14)	(1.17)	(1.21)	(1.05)	(1.09)	(1.14)	(0.95)	(1.01)	(1.07)
(SUB STRUCTURE)	(1.58)	(1.43)	(1.47)	(1.51)	(1.31)	(1.37)	(1.43)	(1.18)	(1.26)	(1.34)
MISCELLANEOUS CIVIL WORK	4.54	4.26	4.36	4.51	3.99	4.22	4.48	3.75	4.04	4.45
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	15.43	14.25	14.49	14.76	13.22	13.62	14.01	12.14	12.64	13.15
ENGINEERING/ADMINISTRATION	13.85	12.95	13.27	13.69	12.79	12.79	13.51	11.37	12.20	13.32
CONTINGENCIES	24.94	23.31	23.88	24.64	21.85	23.03	24.33	20.46	21.56	23.58
S U B T O T A L	149.61	139.89	143.29	147.84	131.08	138.15	145.96	122.75	131.73	143.85

ACCESS ROAD (ROAD LENGTH 1.5 KM)

CONSTRUCTION COST	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
ENGINEERING ADMINISTRATION	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
CONTINGENCIES	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
S U B T O T A L	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43

TRANSMISSION LINE SYSTEM (T/L LENGTH 27.0 KM)

TRANSMISSION LINE	1.84	1.84	1.84	1.84	1.24	1.84	1.84	1.24	1.24	1.84
SWITCHYARD AND SUBSTATION	0.62	0.62	0.62	0.62	0.54	0.62	0.62	0.54	0.54	0.62
ENGINEERING/ADMINISTRATION	0.31	0.31	0.31	0.31	0.22	0.31	0.31	0.22	0.22	0.31
CONTINGENCIES	0.41	0.41	0.41	0.41	0.30	0.41	0.41	0.30	0.30	0.41
S U B T O T A L	3.18	3.18	3.18	3.18	2.31	3.18	3.18	2.31	2.31	3.18

T O T A L : 153.22 143.49 146.90 151.45 133.61 141.76 149.56 125.48 134.47 147.46

EVALUATION INDICES

U S D / K W	3085.0	3245.1	3190.7	3149.9	3346.1	3302.5	3252.8	3510.3	3416.6	3402.5
U S D / K W H	1.744	1.782	1.759	1.742	1.786	1.773	1.754	1.811	1.778	1.780

PROJECT NAME : DISUSUAN
 PROJECT ID : 2-008-16-41-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(5.6)	(4.2)	(4.8)	(5.4)	(3.8)	(4.4)	(5.1)	(3.4)	(4.0)	(4.8)
STORAGE DAM	26.81	20.36	22.67	26.81	18.77	21.50	26.81	17.07	20.34	26.81
SPILLWAY	8.74	7.80	8.15	8.74	7.54	7.98	8.74	7.26	7.79	8.74
DIVERSION TUNNEL	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55
INTAKE (PRESSURE TYPE)	0.41	0.44	0.40	0.37	0.44	0.36	0.33	0.37	0.32	0.29
HEADRACE TUNNEL (PRESSURE)	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
SURGE TANK	0.19	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16
PENSTOCK	0.37	0.33	0.35	0.37	0.32	0.34	0.37	0.31	0.33	0.36
(PRESSURE SHAFT)	(0.23)	(0.21)	(0.22)	(0.23)	(0.20)	(0.22)	(0.23)	(0.20)	(0.21)	(0.22)
(STEEL LINER)	(0.15)	(0.12)	(0.13)	(0.15)	(0.11)	(0.13)	(0.14)	(0.11)	(0.12)	(0.14)
POWERHOUSE BUILDING	0.34	0.28	0.30	0.32	0.25	0.28	0.31	0.23	0.25	0.29
(SUPER STRUCTURE)	(0.15)	(0.12)	(0.13)	(0.14)	(0.11)	(0.12)	(0.14)	(0.10)	(0.11)	(0.13)
(SUB STRUCTURE)	(0.19)	(0.15)	(0.17)	(0.18)	(0.14)	(0.15)	(0.17)	(0.13)	(0.14)	(0.16)
MISCELLANEOUS CIVIL WORK	2.15	1.77	1.91	2.14	1.68	1.84	2.14	1.57	1.77	2.14
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	2.34	2.02	2.12	2.23	1.87	1.98	2.11	1.72	1.84	1.99
ENGINEERING/ADMINISTRATION	5.93	4.91	5.27	5.91	4.84	5.07	5.88	4.35	4.86	5.86
CONTINGENCIES	10.68	8.84	9.49	10.64	8.35	9.12	10.59	7.83	8.76	10.55
S U B T O T A L	64.06	53.02	56.93	63.82	50.10	54.75	63.56	46.97	52.54	63.28

ACCESS ROAD (ROAD LENGTH 7.5 KM)

CONSTRUCTION COST	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
ENGINEERING ADMINISTRATION	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
CONTINGENCIES	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
S U B T O T A L	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14

TRANSMISSION LINE SYSTEM (T/L LENGTH 41.0 KM)

TRANSMISSION LINE	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
CONTINGENCIES	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
S U B T O T A L	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57

T O T A L : 67.76 56.73 60.64 67.52 53.81 58.45 67.26 50.68 56.24 66.99

EVALUATION INDICES

U S D / K W	12106.3	13366.0	12764.7	12555.3	14016.5	13287.0	13139.8	14767.4	13947.2	13891.4
U S D / K W H	2.458	2.649	2.546	2.513	2.726	2.605	2.586	2.811	2.681	2.681

PROJECT NAME : MARIANO
 PROJECT ID : 2-008-16-42-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST.CAP(MW))	(10.2)	(8.7)	(10.5)	(8.3)	(8.8)	(9.3)	(9.9)	(10.5)	(8.0)	(10.4)
STORAGE DAM	51.99	43.25	51.99	40.91	42.73	45.19	48.36	51.59	39.73	51.99
SPILLWAY	11.72	10.90	11.72	10.66	10.85	11.10	11.39	11.72	10.55	11.72
DIVERSION TUNNEL	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43
INTAKE (PRESSURE TYPE)	0.84	0.75	0.64	0.73	0.69	0.66	0.63	0.59	0.72	0.58
HEADRACE TUNNEL (PRESSURE)	0.98	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
SURGE TANK	0.34	0.31	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.29
PENSTOCK	0.55	0.52	0.50	0.51	0.53	0.55	0.58	0.60	0.50	0.60
(PRESSURE SHAFT)	(0.30)	(0.29)	(0.32)	(0.29)	(0.30)	(0.30)	(0.31)	(0.32)	(0.29)	(0.32)
(STEEL LINER)	(0.25)	(0.23)	(0.28)	(0.22)	(0.23)	(0.25)	(0.27)	(0.28)	(0.22)	(0.28)
POWERHOUSE BUILDING	0.58	0.51	0.58	0.49	0.51	0.53	0.55	0.57	0.48	0.56
(SUPER STRUCTURE)	(0.26)	(0.23)	(0.26)	(0.22)	(0.23)	(0.23)	(0.24)	(0.25)	(0.21)	(0.25)
(SUB STRUCTURE)	(0.32)	(0.28)	(0.32)	(0.27)	(0.28)	(0.29)	(0.30)	(0.32)	(0.27)	(0.31)
MISCELLANEOUS CIVIL WORK	3.72	3.23	3.71	3.10	3.20	3.33	3.51	3.71	3.03	3.71
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	3.72	3.32	3.61	3.22	3.30	3.38	3.47	3.56	3.16	3.52
ENGINEERING/ADMINISTRATION	10.23	8.89	10.19	8.53	8.81	9.18	9.64	10.18	8.35	10.17
CONTINGENCIES	18.42	16.01	18.34	15.26	15.85	16.52	17.36	18.32	15.03	18.30
S U B T O T A L	110.53	96.05	110.03	92.16	95.13	99.10	104.14	109.89	90.20	109.80

ACCESS ROAD (ROAD LENGTH 34.0 KM)

CONSTRUCTION COST	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48
ENGINEERING ADMINISTRATION	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
CONTINGENCIES	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62
S U B T O T A L	9.69	9.69	9.69	9.69	9.69	9.69	9.69	9.69	9.69	9.69

TRANSMISSION LINE SYSTEM (T/L LENGTH 45.0 KM)

TRANSMISSION LINE	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
CONTINGENCIES	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
S U B T O T A L	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69

T O T A L : 121.92 107.43 121.41 103.54 106.51 110.48 115.52 121.27 101.58 121.18

EVALUATION INDICES

U.S.D / K W	11940.4	12418.3	11545.1	12538.6	12163.7	11880.2	11897.5	11574.8	12623.5	11644.3
U S D / K W H	2.572	2.619	2.450	2.628	2.556	2.502	2.467	2.445	2.636	2.452

PROJECT NAME : ALIMIT-1
 PROJECT ID : 2-008-19-43-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP (MW))	(63.7)	(55.0)	(58.8)	(63.1)	(52.5)	(57.1)	(62.3)	(49.9)	(55.3)	(61.3)
STORAGE DAM	62.16	52.26	56.32	62.16	49.43	54.58	62.16	46.57	52.98	62.16
SPILLWAY	16.93	15.88	16.34	16.93	15.56	16.14	16.93	15.21	15.96	16.93
DIVERSION TUNNEL	11.10	11.10	11.10	11.10	11.10	11.10	11.10	11.10	11.10	11.10
INTAKE (PRESSURE TYPE)	2.62	2.73	2.59	2.47	2.63	2.48	2.34	2.54	2.36	2.20
HEADRAE TUNNEL (PRESSURE)	3.30	3.26	3.24	3.23	3.20	3.18	3.17	3.14	3.12	3.10
SURGE TANK	1.69	1.67	1.65	1.64	1.63	1.61	1.60	1.58	1.57	1.55
PENSTOCK	2.77	2.47	2.61	2.76	2.40	2.56	2.75	2.33	2.52	2.73
(PRESSURE SHAFT)	(0.80)	(0.77)	(0.79)	(0.80)	(0.77)	(0.78)	(0.80)	(0.76)	(0.78)	(0.80)
(STEEL LINER)	(1.97)	(1.70)	(1.82)	(1.96)	(1.63)	(1.78)	(1.95)	(1.57)	(1.74)	(1.93)
POWERHOUSE BUILDING	3.47	3.13	3.27	3.42	3.01	3.17	3.35	2.88	3.08	3.29
(SUPER STRUCTURE)	(1.54)	(1.39)	(1.45)	(1.52)	(1.34)	(1.41)	(1.49)	(1.28)	(1.37)	(1.46)
(SUB STRUCTURE)	(1.93)	(1.74)	(1.82)	(1.90)	(1.67)	(1.76)	(1.86)	(1.60)	(1.71)	(1.83)
MISCELLANEOUS CIVIL WORK	5.20	4.62	4.86	5.19	4.45	4.74	5.17	4.27	4.63	5.15
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	18.12	16.83	17.31	17.82	16.28	16.86	17.48	15.73	16.42	17.13
ENGINEERING/ADMINISTRATION	15.92	14.24	14.91	15.84	13.71	14.55	15.76	13.17	14.22	15.67
CONTINGENCIES	28.66	25.63	26.84	28.51	24.68	26.20	28.36	23.70	25.59	28.20
S U B T O T A L	171.94	153.81	161.04	171.07	148.06	157.18	170.15	142.21	153.53	169.22

ACCESS ROAD (ROAD LENGTH 17.0 KM)

CONSTRUCTION COST	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74
ENGINEERING ADMINISTRATION	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
CONTINGENCIES	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
S U B T O T A L	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85

TRANSMISSION LINE SYSTEM (T/L LENGTH 36.0 KM)

TRANSMISSION LINE	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45
SWITCHYARD AND SUBSTATION	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
ENGINEERING/ADMINISTRATION	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
CONTINGENCIES	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
S U B T O T A L	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97	3.97

T O T A L : 180.75 162.62 169.86 179.89 156.87 166.00 178.98 151.03 162.35 178.04

EVALUATION INDICES

U S D / K W	2836.5	2956.7	2886.4	2850.7	2990.7	2908.7	2874.5	3026.7	2936.0	2904.0
U S D / K W H	1.676	1.722	1.687	1.671	1.725	1.585	1.670	1.728	1.685	1.671

PROJECT NAME : ALIMIT-2
 PROJECT ID : 2-008-19-44-0
 TYPE : RESERVOIR

(UNIT : MILLION USD)

 * SUMMARY TABLE OF COST ESTIMATE *

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP (MW))	(74.0)	(62.2)	(67.4)	(73.2)	(59.5)	(65.4)	(72.3)	(56.6)	(63.3)	(71.1)
STORAGE DAM	104.06	86.33	93.31	104.06	82.32	90.93	104.06	77.73	87.75	104.06
SPILLWAY	20.16	18.72	19.34	20.16	18.36	19.10	20.16	17.95	18.84	20.16
DIVERSION TUNNEL	12.96	12.96	12.96	12.96	12.96	12.96	12.96	12.96	12.96	12.96
INTAKE (PRESSURE TYPE)	2.47	2.68	2.50	2.32	2.59	2.38	2.18	2.49	2.26	2.06
HEADRACE TUNNEL (PRESSURE)	3.59	3.64	3.63	3.62	3.58	3.56	3.54	3.51	3.49	3.47
SURGE TANK	1.54	1.52	1.51	1.49	1.48	1.47	1.45	1.44	1.43	1.41
PENSTOCK	2.21	1.84	2.02	2.22	1.79	1.99	2.22	1.73	1.96	2.22
(PRESSURE SHAFT)	(0.57)	(0.53)	(0.55)	(0.58)	(0.52)	(0.55)	(0.58)	(0.52)	(0.55)	(0.58)
(STEEL LINER)	(1.63)	(1.31)	(1.47)	(1.64)	(1.26)	(1.44)	(1.64)	(1.21)	(1.40)	(1.63)
POWERHOUSE BUILDING	3.64	3.23	3.40	3.58	3.10	3.30	3.52	2.98	3.20	3.45
(SUPER STRUCTURE)	(1.52)	(1.43)	(1.51)	(1.59)	(1.33)	(1.47)	(1.56)	(1.32)	(1.42)	(1.53)
(SUB STRUCTURE)	(2.02)	(1.79)	(1.89)	(1.99)	(1.72)	(1.83)	(1.96)	(1.65)	(1.78)	(1.92)
MISCELLANEOUS CIVIL WORK	7.54	6.55	6.96	7.52	6.31	6.78	7.50	6.04	6.59	7.49
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	18.08	16.59	17.17	17.77	16.07	16.73	17.45	15.53	16.28	17.09
ENGINEERING/ADMINISTRATION	22.04	19.26	20.42	21.96	18.57	19.90	21.88	17.79	19.35	21.80
CONTINGENCIES	39.67	34.66	36.76	39.53	33.42	35.82	39.38	32.03	34.82	39.23
S U B T O T A L	236.04	207.95	220.57	237.19	200.53	214.92	236.31	192.18	208.93	235.39

ACCESS ROAD (ROAD LENGTH 15.5 KM)

CONSTRUCTION COST	3.41	3.41	3.41	3.41	3.41	3.41	3.41	3.41	3.41	3.41
ENGINEERING ADMINISTRATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
CONTINGENCIES	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
S U B T O T A L	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42

TRANSMISSION LINE SYSTEM (T/L LENGTH 41.0 KM)

TRANSMISSION LINE	4.55	2.79	2.79	4.55	2.79	2.79	4.55	2.79	2.79	4.55
SWITCHYARD AND SUBSTATION	0.96	0.62	0.62	0.96	0.62	0.62	0.96	0.62	0.62	0.96
ENGINEERING/ADMINISTRATION	0.59	0.43	0.43	0.59	0.43	0.43	0.59	0.43	0.43	0.59
CONTINGENCIES	0.93	0.58	0.58	0.93	0.58	0.58	0.93	0.58	0.58	0.93
S U B T O T A L	7.13	4.41	4.41	7.13	4.41	4.41	7.13	4.41	4.41	7.13

T O T A L

	249.59	216.78	229.40	248.74	209.35	223.75	247.86	201.01	217.76	246.94
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EVALUATION INDICES

U S D / K W	3372.9	3484.1	3401.2	3397.2	3521.0	3418.8	3428.5	3550.5	3439.6	3472.9
U S D / K W H	2.001	2.033	1.994	1.995	2.033	1.987	2.000	2.029	1.980	2.008

PROJECT NAME : HUOAB
 PROJECT ID : 2-008-20-45-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP (MW))	(98.9)	(87.3)	(92.4)	(98.1)	(83.5)	(89.9)	(97.1)	(79.6)	(87.2)	(95.7)
STORAGE DAM	143.85	126.98	133.43	143.85	121.36	129.85	143.85	115.11	126.31	143.85
SPILLWAY	21.35	20.31	20.73	21.35	19.93	20.51	21.35	19.51	20.27	21.35
DIVERSION TUNNEL	15.72	15.72	15.72	15.72	15.72	15.72	15.72	15.72	15.72	15.72
INTAKE (PRESSURE TYPE)	3.28	3.41	3.24	3.08	3.30	3.09	2.89	3.18	2.94	2.72
HEADRACE TUNNEL (PRESSURE)	3.03	2.99	2.98	2.97	2.93	2.92	2.91	2.87	2.86	2.85
SURGE TANK	1.88	1.85	1.84	1.82	1.80	1.79	1.77	1.75	1.74	1.71
PENSTOCK	3.95	3.52	3.73	3.97	3.41	3.67	3.97	3.30	3.61	3.95
(PRESSURE SHAFT)	(0.89)	(0.85)	(0.88)	(0.89)	(0.85)	(0.87)	(0.90)	(0.84)	(0.87)	(0.90)
(STEEL LINER)	(3.06)	(2.66)	(2.86)	(3.07)	(2.56)	(2.80)	(3.07)	(2.46)	(2.74)	(3.05)
POWERHOUSE BUILDING	4.88	4.46	4.63	4.81	4.29	4.51	4.73	4.12	4.37	4.64
(SUPER STRUCTURE)	(2.17)	(1.98)	(2.06)	(2.14)	(1.91)	(2.00)	(2.10)	(1.83)	(1.94)	(2.06)
(SUB STRUCTURE)	(2.71)	(2.48)	(2.57)	(2.67)	(2.39)	(2.50)	(2.63)	(2.29)	(2.43)	(2.58)
MISCELLANEOUS CIVIL WORK	9.90	8.96	9.31	9.88	8.64	9.10	9.86	8.28	8.89	9.84
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	23.57	22.08	22.62	23.19	21.39	22.07	22.79	20.68	21.50	22.35
ENGINEERING/ADMINISTRATION	26.54	25.23	25.79	26.49	24.74	25.41	26.44	24.21	25.09	26.39
CONTINGENCIES	51.59	47.10	48.79	51.43	45.50	47.73	51.25	43.75	46.66	51.07
S U B T O T A L	309.52	282.61	292.75	308.55	273.02	286.36	307.52	262.49	279.96	306.45

ACCESS ROAD (ROAD LENGTH 1.5 KM)

CONSTRUCTION COST	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
ENGINEERING ADMINISTRATION	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
CONTINGENCIES	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
S U B T O T A L	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43

TRANSMISSION LINE SYSTEM (T/L LENGTH 41.0 KM)

TRANSMISSION LINE	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
ENGINEERING/ADMINISTRATION	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
CONTINGENCIES	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
S U B T O T A L	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13

T O T A L : 317.08 290.17 300.30 316.11 280.58 293.92 315.08 270.05 287.52 314.00

EVALUATION INDICES

U S D / K W	3207.5	3324.3	3250.9	3222.0	3361.7	3270.8	3246.3	3393.9	3298.4	3281.1
U S D / K W H	1.901	1.942	1.907	1.895	1.944	1.901	1.893	1.942	1.900	1.896

PROJECT NAME : IBULAO
 PROJECT ID : 2-008-20-46-0
 TYPE : RUN-OF-RIVER

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E				
	1	2	3	4	5
POWER DEVELOPMENT (INST. CAP (MW))	(2.7)	(5.7)	(9.0)	(13.1)	(16.3)
DIVERSION DAM/WEIR	0.35	0.36	0.42	0.45	0.47
INTAKE (NON-PRESSURE TYPE)	0.10	0.15	0.20	0.25	0.30
HEADRACE TUNNEL (NON-PRES.)	5.27	5.27	5.39	6.47	7.18
HEAD TANK	0.08	0.13	0.17	0.22	0.25
PENSTOCK	1.16	1.34	1.54	1.86	2.10
(PRESSURE SHAFT)	(0.72)	(0.72)	(0.72)	(0.81)	(0.86)
(STEEL LINER)	(0.45)	(0.63)	(0.82)	(1.06)	(1.24)
POWERHOUSE BUILDING	0.10	0.22	0.49	0.88	1.09
(SUPER STRUCTURE)	(0.04)	(0.10)	(0.22)	(0.39)	(0.48)
(SUB STRUCTURE)	(0.06)	(0.12)	(0.27)	(0.49)	(0.60)
MISCELLANEOUS CIVIL WORK	0.35	0.37	0.41	0.51	0.57
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.
POWER EQUIPMENT	0.64	1.20	1.94	2.74	3.33
ENGINEERING/ADMINISTRATION	1.01	1.14	1.32	1.67	1.91
CONTINGENCIES	1.81	2.06	2.38	3.01	3.44
S U B T O T A L	10.87	12.35	14.26	18.07	20.64

ACCESS ROAD (ROAD LENGTH 14.2 KM)

CONSTRUCTION COST	3.12	3.12	3.12	3.12	3.12
ENGINEERING ADMINISTRATION	0.25	0.25	0.25	0.25	0.25
CONTINGENCIES	0.67	0.67	0.67	0.67	0.67
S U B T O T A L	4.05	4.05	4.05	4.05	4.05

TRANSMISSION LINE SYSTEM (T/L LENGTH 42.0 KM)

TRANSMISSION LINE	0.97	0.97	0.97	0.97	0.97
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.15	0.15	0.15	0.15	0.15
CONTINGENCIES	0.21	0.21	0.21	0.21	0.21
S U B T O T A L	1.60	1.60	1.60	1.60	1.60

T O T A L : 16.52 18.00 19.91 23.71 26.29

EVALUATION INDICES

U S D / K W	6181.3	3140.5	2220.7	1806.7	1611.6
U S D / K W H	0.995	0.801	0.741	0.749	0.759

PROJECT NAME : MATUNO-1R
 PROJECT ID : 2-008-22-47-0
 TYPE : RUN-OF-RIVER

CUNIT : MILLION USD)

 * SUMMARY TABLE OF COST ESTIMATE *

I T E M	C A S E				
	1	2	3	4	5
POWER DEVELOPMENT (INST. CAP (MW))	(1.6)	(3.3)	(5.0)	(7.4)	(9.2)
DIVERSION DAM/WEIR	0.53	0.59	0.64	0.69	0.72
INTAKE (NON-PRESSURE TYPE)	0.10	0.15	0.21	0.27	0.31
HEADRACE TUNNEL (NON-PRES.)	5.92	5.92	6.15	7.38	8.19
HEAD TANK	0.08	0.13	0.18	0.22	0.25
PENSTOCK	0.77	0.85	0.95	1.12	1.24
(PRESSURE SHAFT)	(0.51)	(0.51)	(0.54)	(0.60)	(0.64)
(STEEL LINER)	(0.26)	(0.34)	(0.41)	(0.52)	(0.60)
POWERHOUSE BUILDING	0.07	0.15	0.34	0.50	0.75
(SUPER STRUCTURE)	(0.03)	(0.07)	(0.15)	(0.27)	(0.33)
(SUB STRUCTURE)	(0.04)	(0.09)	(0.19)	(0.33)	(0.42)
MISCELLANEOUS CIVIL WORK	0.37	0.39	0.42	0.51	0.57
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.
POWER EQUIPMENT	0.51	1.01	1.52	2.14	2.60
ENGINEERING/ADMINISTRATION	1.05	1.15	1.30	1.62	1.83
CONTINGENCIES	1.88	2.07	2.34	2.91	3.29
S U B T O T A L	11.29	12.41	14.04	17.46	19.76

ACCESS ROAD (ROAD LENGTH 38.0 KM)

CONSTRUCTION COST	8.36	8.36	8.36	8.36	8.36
ENGINEERING ADMINISTRATION	0.67	0.67	0.67	0.67	0.67
CONTINGENCIES	1.81	1.81	1.81	1.81	1.81
S U B T O T A L	10.83	10.83	10.83	10.83	10.83

TRANSMISSION LINE SYSTEM (T/L LENGTH 29.0 KM)

TRANSMISSION LINE	0.67	0.67	0.67	0.67	0.67
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.12	0.12	0.12	0.12	0.12
CONTINGENCIES	0.16	0.16	0.16	0.16	0.16
S U B T O T A L	1.21	1.21	1.21	1.21	1.21

T O T A L : 23.33 24.46 26.09 29.51 31.81

EVALUATION INDICES

U S D / K W	14940.0	7434.6	5185.3	4000.7	3467.4
U S D / K W H	2.403	1.895	1.728	1.656	1.630

PROJECT NAME : MATUNO-2R
 PROJECT ID : 2-008-22-48-0
 TYPE : RUN-OF-RIVER

(UNIT : MILLION USD)

 * SUMMARY TABLE OF COST ESTIMATE *

I T E M	C A S E				
	1	2	3	4	5
POWER DEVELOPMENT (INST. CAP.(MW))	(1.4)	(3.1)	(5.0)	(7.1)	(8.7)
DIVERSION DAM/WEIR	0.29	0.31	0.33	0.35	0.36
INTAKE (NON-PRESSURE TYPE)	0.07	0.10	0.13	0.17	0.19
HEADRACE TUNNEL (NON-PRES.)	4.25	4.25	4.25	4.25	4.25
HEAD TANK	0.05	0.08	0.11	0.14	0.16
PENSTOCK	1.33	1.45	1.59	1.74	1.85
(PRESSURE SHAFT)	(0.88)	(0.88)	(0.87)	(0.87)	(0.87)
(STEEL LINER)	(0.46)	(0.58)	(0.71)	(0.86)	(0.98)
POWERHOUSE BUILDING	0.05	0.12	0.26	0.46	0.57
(SUPER STRUCTURE)	(0.02)	(0.05)	(0.12)	(0.21)	(0.25)
(SUB STRUCTURE)	(0.03)	(0.06)	(0.15)	(0.26)	(0.32)
MISCELLANEOUS CIVIL WORK	0.30	0.32	0.33	0.36	0.37
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.
POWER EQUIPMENT	0.35	0.71	1.10	1.53	1.85
ENGINEERING/ADMINISTRATION	0.84	0.92	1.01	1.13	1.20
CONTINGENCIES	1.51	1.65	1.82	2.03	2.16
S U B T O T A L	9.05	9.92	10.95	12.16	12.96
ACCESS ROAD (ROAD LENGTH 30.0 KM)					
CONSTRUCTION COST	6.60	6.60	6.60	6.60	6.60
ENGINEERING ADMINISTRATION	0.53	0.53	0.53	0.53	0.53
CONTINGENCIES	1.43	1.43	1.43	1.43	1.43
S U B T O T A L	8.55	8.55	8.55	8.55	8.55
TRANSMISSION LINE SYSTEM (T/L LENGTH 17.0 KM)					
TRANSMISSION LINE	0.39	0.39	0.39	0.39	0.39
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.08	0.08	0.08	0.08	0.08
CONTINGENCIES	0.11	0.11	0.11	0.11	0.11
S U B T O T A L	0.86	0.86	0.86	0.86	0.86
T O T A L	18.46	19.33	20.36	21.56	22.37
EVALUATION INDICES					
U S D / K W	13048.5	6271.4	4105.4	3028.8	2579.0
U S D / K W H	2.099	1.599	1.369	1.255	1.214

PROJECT NAME : STA. CRUZ
 PROJECT ID : 2-008-22-49-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP(MW))	(2.5)	(2.4)	(2.4)	(2.4)	(2.4)	(2.4)	(2.2)	(2.2)	(2.3)	(2.4)
STORAGE DAM	34.21	33.06	33.35	33.63	33.92	34.21	31.89	32.47	33.63	34.21
SPILLWAY	7.31	7.19	7.22	7.25	7.28	7.31	7.07	7.13	7.25	7.31
DIVERSION TUNNEL	6.89	6.89	6.89	6.89	6.89	6.89	6.89	6.89	6.89	6.89
INTAKE (PRESSURE TYPE)	0.28	0.27	0.26	0.26	0.26	0.26	0.25	0.25	0.24	0.24
HEADRACE TUNNEL (PRESSURE)	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
SURGE TANK	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15
PENSTOCK	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.26	0.26	0.26
(PRESSURE SHAFT)	(0.18)	(0.18)	(0.18)	(0.18)	(0.18)	(0.18)	(0.17)	(0.18)	(0.18)	(0.18)
(STEEL LINER)	(0.08)	(0.08)	(0.08)	(0.08)	(0.08)	(0.08)	(0.08)	(0.08)	(0.08)	(0.08)
POWERHOUSE BUILDING	0.18	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.17	0.17
(SUPER STRUCTURE)	(0.08)	(0.08)	(0.08)	(0.08)	(0.08)	(0.08)	(0.07)	(0.07)	(0.07)	(0.07)
(SUB STRUCTURE)	(0.10)	(0.10)	(0.10)	(0.10)	(0.10)	(0.10)	(0.09)	(0.09)	(0.09)	(0.09)
MISCELLANEOUS CIVIL WORK	2.51	2.44	2.45	2.47	2.49	2.50	2.37	2.41	2.47	2.50
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	1.44	1.37	1.38	1.38	1.39	1.39	1.31	1.32	1.33	1.34
ENGINEERING/ADMINISTRATION	6.76	6.58	6.62	6.66	6.70	6.75	6.39	6.48	6.65	6.73
CONTINGENCIES	12.16	11.84	11.91	11.99	12.07	12.14	11.51	11.66	11.97	12.12
S U B T O T A L	72.97	71.03	71.48	71.94	72.40	72.85	69.06	69.98	71.82	72.73

ACCESS ROAD (ROAD LENGTH 0. KM)

CONSTRUCTION COST	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ENGINEERING ADMINISTRATION	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CONTINGENCIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
S U B T O T A L	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

TRANSMISSION LINE SYSTEM (T/L LENGTH 15.0 KM)

TRANSMISSION LINE	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
CONTINGENCIES	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
S U B T O T A L	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80

T O T A L : 73.77 71.82 72.28 72.74 73.19 73.65 69.86 70.78 72.62 73.53

EVALUATION INDICES

U S D / K W	29422.0	30474.2	30396.6	30320.6	30246.2	30173.4	31616.7	31461.1	31169.4	31032.7
U S D / K W H	5.450	5.567	5.555	5.544	5.533	5.522	5.691	5.668	5.626	5.606

PROJECT NAME : PINARIPAD
 PROJECT ID : 2-008-26-50-0
 TYPE : RESERVOIR

(UNIT : MILLION USD)

 * SUMMARY TABLE OF COST ESTIMATE *

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(80.3)	(70.6)	(74.6)	(78.7)	(86.0)	(71.2)	(76.5)	(61.5)	(67.7)	(74.2)
STORAGE DAM	65.39	58.06	61.67	65.39	54.73	59.93	65.39	51.36	57.96	65.39
SPILLWAY	14.79	14.10	14.44	14.79	13.79	14.28	14.79	13.48	14.09	14.79
DIVERSION TUNNEL	14.24	14.24	14.24	14.24	14.24	14.24	14.24	14.24	14.24	14.24
INTAKE (PRESSURE TYPE)	3.92	3.87	3.77	3.66	3.69	3.56	3.43	3.50	3.34	3.19
HEADRACE TUNNEL (PRESSURE)	4.44	4.33	4.32	4.31	4.20	4.19	4.18	4.07	4.06	4.04
SURGE TANK	2.74	2.64	2.63	2.62	2.54	2.53	2.51	2.43	2.41	2.40
PENSTOCK	5.72	5.31	5.47	5.64	5.11	5.32	5.54	4.91	5.16	5.43
(PRESSURE SHAFT)	(2.07)	(2.02)	(2.04)	(2.05)	(2.00)	(2.02)	(2.04)	(1.98)	(2.00)	(2.02)
(STEEL LINER)	(3.65)	(3.29)	(3.43)	(3.59)	(3.11)	(3.30)	(3.50)	(2.93)	(3.16)	(3.41)
POWERHOUSE BUILDING	6.87	6.23	6.45	6.68	5.87	6.17	6.46	5.52	5.87	6.23
(SUPER STRUCTURE)	(3.05)	(2.77)	(2.87)	(2.97)	(2.61)	(2.74)	(2.87)	(2.45)	(2.61)	(2.77)
(SUB STRUCTURE)	(3.81)	(3.46)	(3.58)	(3.71)	(3.26)	(3.43)	(3.59)	(3.06)	(3.26)	(3.46)
MISCELLANEOUS CIVIL WORK	5.91	5.44	5.65	5.87	5.21	5.51	5.83	4.98	5.36	5.79
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	25.68	23.84	24.41	24.96	22.71	23.45	24.18	21.55	22.45	23.34
ENGINEERING/ADMINISTRATION	18.71	17.26	17.88	18.52	16.51	17.40	18.32	15.75	16.87	18.11
CONTINGENCIES	33.68	31.06	32.19	33.34	29.72	31.31	32.97	28.36	30.36	32.59
S U B T O T A L	202.08	186.38	193.12	200.02	178.31	187.89	197.84	170.14	182.17	195.54

ACCESS ROAD (ROAD LENGTH 5.0 KM)

CONSTRUCTION COST	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
ENGINEERING ADMINISTRATION	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
CONTINGENCIES	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
S U B T O T A L	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43

TRANSMISSION LINE SYSTEM (T/L LENGTH 38.0 KM)

TRANSMISSION LINE	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
ENGINEERING/ADMINISTRATION	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
CONTINGENCIES	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
S U B T O T A L	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70

T O T A L : 210.20 194.51 201.24 208.14 183.88 196.01 205.97 175.72 187.74 203.66

EVALUATION INDICES

U S D / K W	2616.4	2753.9	2696.8	2645.9	2784.2	2751.6	2691.1	2857.2	2774.7	2745.4
U S D / K W H	1.438	1.480	1.456	1.434	1.469	1.461	1.435	1.478	1.447	1.439

PROJECT NAME : DIBULUAN
 PROJECT ID : 2-008-27-51-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

 (UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP (MW))	(50.2)	(36.5)	(42.5)	(49.3)	(34.1)	(40.7)	(48.2)	(31.8)	(38.8)	(47.0)
STORAGE DAM	67.09	45.01	53.33	67.09	41.48	50.92	67.09	38.01	48.55	67.09
SPILLWAY	15.28	13.21	14.07	15.28	12.81	13.82	15.28	12.40	13.58	15.28
DIVERSION TUNNEL	9.71	9.71	9.71	9.71	9.71	9.71	9.71	9.71	9.71	9.71
INTAKE (PRESSURE TYPE)	1.91	2.13	1.95	1.78	2.03	1.83	1.67	1.93	1.73	1.55
HEADRACE TUNNEL (PRESSURE)	2.09	2.05	2.04	2.03	2.00	1.99	1.98	1.94	1.94	1.93
SURGE TANK	1.07	1.05	1.04	1.03	1.01	1.00	0.99	0.98	0.96	0.95
PENSTOCK	2.65	2.10	2.35	2.63	2.02	2.20	2.61	1.94	2.23	2.57
(PRESSURE SHAFT)	(0.83)	(0.77)	(0.80)	(0.83)	(0.76)	(0.80)	(0.83)	(0.76)	(0.79)	(0.83)
(STEEL LINER)	(1.82)	(1.33)	(1.55)	(1.80)	(1.25)	(1.49)	(1.78)	(1.18)	(1.44)	(1.75)
POWERHOUSE BUILDING	2.55	2.04	2.26	2.49	1.93	2.16	2.42	1.82	2.07	2.35
(SUPER STRUCTURE)	(1.13)	(0.91)	(1.00)	(1.10)	(0.86)	(0.96)	(1.08)	(0.81)	(0.92)	(1.04)
(SUB STRUCTURE)	(1.42)	(1.14)	(1.25)	(1.38)	(1.07)	(1.20)	(1.34)	(1.01)	(1.15)	(1.31)
MISCELLANEOUS CIVIL WORK	5.12	3.86	4.34	5.10	3.65	4.19	5.09	3.44	4.04	5.07
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	13.28	11.38	12.15	12.96	10.86	11.72	12.62	10.34	11.29	12.26
ENGINEERING/ADMINISTRATION	15.09	11.57	12.90	15.01	10.94	12.45	14.93	10.31	12.01	14.85
CONTINGENCIES	27.17	20.82	23.23	27.02	19.69	22.42	26.88	18.56	21.62	26.72
S U B T O T A L	163.00	124.92	139.36	162.14	118.11	134.51	161.25	111.38	129.73	160.34

ACCESS ROAD (ROAD LENGTH 18.0 KM)

CONSTRUCTION COST	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96	3.96
ENGINEERING ADMINISTRATION	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
CONTINGENCIES	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
S U B T O T A L	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.13

TRANSMISSION LINE SYSTEM (T/L LENGTH 57.0 KM)

TRANSMISSION LINE	3.88	2.62	3.88	3.88	2.62	3.88	3.88	2.62	2.62	3.88
SWITCHYARD AND SUBSTATION	0.62	0.54	0.62	0.62	0.54	0.62	0.62	0.54	0.54	0.62
ENGINEERING/ADMINISTRATION	0.56	0.40	0.56	0.56	0.40	0.56	0.56	0.40	0.40	0.56
CONTINGENCIES	0.76	0.53	0.76	0.76	0.53	0.76	0.76	0.53	0.53	0.76
S U B T O T A L	5.82	4.09	5.82	5.82	4.09	5.82	5.82	4.09	4.09	5.82

T O T A L : 173.95 134.14 150.31 173.09 127.94 145.46 172.20 120.60 138.96 171.28

EVALUATION INDICES

U S D / K W	3462.6	3670.5	3537.3	3512.1	3731.2	3578.3	3572.3	3795.8	3578.9	3541.9
U S D / K W H	2.075	2.140	2.083	2.081	2.144	2.081	2.091	2.147	2.054	2.104

PROJECT NAME : CABINGATAN
 PROJECT ID : 2-003-28-52-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	{ 265.5 }	{ 208.1 }	{ 232.8 }	{ 250.2 }	{ 195.8 }	{ 223.6 }	{ 254.5 }	{ 183.7 }	{ 214.1 }	{ 248.1 }
STORAGE DAM	: 83.50	: 63.99	: 72.09	: 83.50	: 60.28	: 69.91	: 83.50	: 56.64	: 67.46	: 83.50
SPILLWAY	: 27.53	: 24.69	: 25.91	: 27.53	: 24.10	: 25.56	: 27.53	: 23.48	: 25.21	: 27.53
DIVERSION TUNNEL	: 18.76	: 18.76	: 18.76	: 18.76	: 18.76	: 18.76	: 18.76	: 18.76	: 18.76	: 18.76
INTAKE (PRESSURE TYPE)	: 7.28	: 7.73	: 7.28	: 6.85	: 7.41	: 6.90	: 6.44	: 7.07	: 6.53	: 6.05
HEADRACE TUNNEL (PRESSURE)	: 6.38	: 6.26	: 6.25	: 6.22	: 6.11	: 6.09	: 6.06	: 5.95	: 5.93	: 5.90
SURGE TANK	: 4.80	: 4.72	: 4.67	: 4.62	: 4.56	: 4.51	: 4.45	: 4.40	: 4.34	: 4.28
PENSTOCK	: 7.21	: 5.62	: 6.36	: 7.19	: 5.39	: 6.22	: 7.15	: 5.17	: 6.06	: 7.09
(PRESSURE SHAFT)	: (1.72)	: (1.55)	: (1.64)	: (1.73)	: (1.53)	: (1.64)	: (1.74)	: (1.52)	: (1.63)	: (1.74)
(STEEL LINER)	: (5.49)	: (4.07)	: (4.72)	: (5.46)	: (3.86)	: (4.58)	: (5.42)	: (3.65)	: (4.43)	: (5.35)
POWERHOUSE BUILDING	: 22.79	: 19.20	: 20.67	: 22.22	: 18.23	: 19.89	: 21.63	: 17.26	: 19.08	: 21.00
(SUPER STRUCTURE)	: (10.13)	: (8.53)	: (9.19)	: (9.88)	: (8.10)	: (8.84)	: (9.61)	: (7.67)	: (8.48)	: (9.33)
(SUB STRUCTURE)	: (12.66)	: (10.67)	: (11.48)	: (12.35)	: (10.13)	: (11.05)	: (12.02)	: (9.59)	: (10.60)	: (11.67)
MISCELLANEOUS CIVIL WORK	: 8.91	: 7.55	: 8.10	: 8.85	: 7.24	: 7.89	: 8.78	: 8.94	: 7.67	: 8.70
CONSTRUCTION FACILITIES	: 0.	: 0.	: 0.	: 0.	: 0.	: 0.	: 0.	: 0.	: 0.	: 0.
POWER EQUIPMENT	: 57.61	: 51.02	: 53.57	: 56.19	: 48.86	: 51.78	: 54.72	: 46.71	: 49.93	: 53.17
ENGINEERING/ADMINISTRATION	: 27.34	: 25.18	: 26.06	: 27.17	: 24.63	: 25.66	: 26.99	: 24.05	: 25.27	: 26.81
CONTINGENCIES	: 54.42	: 46.94	: 49.94	: 53.82	: 45.11	: 48.64	: 53.20	: 43.28	: 47.25	: 52.56
S U B T O T A L	: 326.53	: 281.67	: 299.67	: 322.93	: 270.67	: 291.85	: 319.20	: 259.71	: 283.49	: 315.34

ACCESS ROAD (ROAD LENGTH 38.5 KM)

CONSTRUCTION COST	: 3.47	: 6.47	: 8.47	: 8.47	: 8.47	: 8.47	: 8.47	: 8.47	: 8.47	: 8.47
ENGINEERING/ADMINISTRATION	: 0.68	: 0.68	: 0.68	: 0.68	: 0.68	: 0.68	: 0.68	: 0.68	: 0.68	: 0.68
CONTINGENCIES	: 1.83	: 1.83	: 1.83	: 1.83	: 1.83	: 1.83	: 1.83	: 1.83	: 1.83	: 1.83
S U B T O T A L	: 10.98	: 10.98	: 10.98	: 10.98	: 10.98	: 10.98	: 10.98	: 10.98	: 10.98	: 10.98

TRANSMISSION LINE SYSTEM (T/L LENGTH 72.0 KM)

TRANSMISSION LINE	: 15.84	: 7.99	: 15.84	: 15.84	: 7.99	: 7.99	: 15.84	: 7.99	: 7.99	: 15.84
SWITCHYARD AND SUBSTATION	: 0.96	: 0.96	: 0.96	: 0.96	: 0.96	: 0.96	: 0.96	: 0.96	: 0.96	: 0.96
ENGINEERING/ADMINISTRATION	: 2.10	: 1.12	: 2.10	: 2.10	: 1.12	: 1.12	: 2.10	: 1.12	: 1.12	: 2.10
CONTINGENCIES	: 2.83	: 1.51	: 2.83	: 2.83	: 1.51	: 1.51	: 2.83	: 1.51	: 1.51	: 2.83
S U B T O T A L	: 21.73	: 11.58	: 21.73	: 21.73	: 11.58	: 11.58	: 21.73	: 11.58	: 11.58	: 21.73

T O T A L : 359.24 304.23 332.38 355.64 293.23 314.41 351.92 282.26 306.05 348.05

EVALUATION INDICES

U S D / K W	: 1353.3	: 1462.3	: 1427.9	: 1366.7	: 1497.6	: 1405.9	: 1382.8	: 1536.3	: 1429.7	: 1402.7
U S D / K W H	: 0.551	: 0.583	: 0.573	: 0.550	: 0.590	: 0.558	: 0.551	: 0.597	: 0.560	: 0.552

PROJECT NAME : GANIP
 PROJECT ID : 2-008-28-53-0
 TYPE : RUN-OF-RIVER

(UNIT : MILLION USD)

 * SUMMARY TABLE OF COST ESTIMATE *

I T E M	C A S E				
	1	2	3	4	5
POWER DEVELOPMENT (INST. CAP (MW))	(1.3)	(2.7)	(4.6)	(6.3)	(7.9)
DIVERSION DAM/WEIR	0.27	0.30	0.32	0.34	0.35
INTAKE (NON-PRESSURE TYPE)	0.09	0.13	0.18	0.23	0.26
HEADRACE TUNNEL (NON-PRES.)	1.96	1.96	1.96	2.21	2.37
HEAD TANK	0.07	0.11	0.15	0.20	0.21
PENSTOCK	0.80	0.87	0.95	1.11	1.18
(PRESSURE SHAFT)	(0.54)	(0.54)	(0.54)	(0.59)	(0.62)
(STEEL LINER)	(0.26)	(0.33)	(0.42)	(0.52)	(0.57)
POWERHOUSE BUILDING	0.06	0.12	0.23	0.53	0.82
(SUPER STRUCTURE)	(0.03)	(0.05)	(0.13)	(0.24)	(0.27)
(SUB STRUCTURE)	(0.03)	(0.07)	(0.16)	(0.30)	(0.34)
MISCELLANEOUS CIVIL WORK	0.16	0.17	0.19	0.23	0.25
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.
POWER EQUIPMENT	0.43	0.81	1.32	1.88	2.15
ENGINEERING/ADMINISTRATION	0.48	0.55	0.67	0.84	0.92
CONTINGENCIES	0.87	1.01	1.21	1.52	1.66
S U B T O T A L	5.20	6.04	7.26	9.09	9.98

ACCESS ROAD (ROAD LENGTH 49.0 KM)

CONSTRUCTION COST	10.78	10.78	10.78	10.78	10.78
ENGINEERING ADMINISTRATION	0.86	0.86	0.86	0.86	0.86
CONTINGENCIES	2.33	2.33	2.33	2.33	2.33
S U B T O T A L	13.97	13.97	13.97	13.97	13.97

TRANSMISSION LINE SYSTEM (T/L LENGTH 59.0 KM)

TRANSMISSION LINE	1.36	1.36	1.36	1.36	1.36
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.20	0.20	0.20	0.20	0.20
CONTINGENCIES	0.27	0.27	0.27	0.27	0.27
S U B T O T A L	2.10	2.10	2.10	2.10	2.10

T O T A L

	21.27	22.12	23.34	25.17	26.05
EVALUATION INDICES					
U S D / K W	15668.2	8124.0	5060.5	3701.7	3307.8
U S D / K W H	2.591	2.031	1.701	1.554	1.515

PROJECT NAME : DAKGAN
 PROJECT ID : 2-008-29-54-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(169.0)	(139.4)	(152.3)	(167.3)	(131.7)	(146.6)	(163.9)	(124.1)	(140.8)	(160.2)
STORAGE DAM	128.15	105.50	114.21	128.15	99.83	110.64	128.15	94.11	107.27	128.15
SPILLWAY	22.62	20.89	21.59	22.62	20.43	21.31	22.62	19.96	21.04	22.62
DIVERSION TUNNEL	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31	9.31
INTAKE (PRESSURE TYPE)	5.02	5.41	5.06	4.74	5.19	4.80	4.45	4.97	4.55	4.17
HEADRACE TUNNEL (PRESSURE)	3.07	3.03	3.02	3.01	2.96	2.95	2.89	2.89	2.87	2.86
SURGE TANK	2.87	2.86	2.82	2.78	2.76	2.72	2.68	2.66	2.62	2.57
PENSTOCK	4.88	3.98	4.42	4.91	3.93	4.32	4.89	3.68	4.23	4.86
(PRESSURE SHAFT)	(1.19)	(1.09)	(1.14)	(1.20)	(1.08)	(1.14)	(1.21)	(1.07)	(1.14)	(1.21)
(STEEL LINER)	(3.69)	(2.89)	(3.27)	(3.71)	(2.75)	(3.18)	(3.68)	(2.61)	(3.09)	(3.65)
POWERHOUSE BUILDING	11.81	10.33	10.94	11.63	9.83	10.54	11.33	9.34	10.14	11.03
(SUPER STRUCTURE)	(5.25)	(4.59)	(4.86)	(5.17)	(4.37)	(4.69)	(5.04)	(4.15)	(4.51)	(4.90)
(SUB STRUCTURE)	(6.56)	(5.74)	(6.08)	(6.46)	(5.45)	(5.85)	(6.30)	(5.19)	(5.63)	(6.13)
MISCELLANEOUS CIVIL WORK	9.39	8.07	8.57	9.36	7.71	8.33	9.32	7.35	8.10	9.28
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	38.23	34.77	36.12	37.59	33.38	34.95	36.65	32.00	33.77	35.68
ENGINEERING/ADMINISTRATION	26.77	24.83	25.59	26.70	24.25	25.20	26.59	23.28	24.82	26.48
CONTINGENCIES	52.43	45.79	48.33	52.16	43.89	47.02	51.79	41.91	45.74	51.40
S U B T O T A L	314.56	274.77	289.97	312.97	263.37	282.09	310.72	251.46	274.46	302.41

ACCESS ROAD (ROAD LENGTH 23.5 KM)

CONSTRUCTION COST	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17
ENGINEERING ADMINISTRATION	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
CONTINGENCIES	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
S U B T O T A L	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70

TRANSMISSION LINE SYSTEM (T/L LENGTH 55.0 KM)

TRANSMISSION LINE	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
ENGINEERING/ADMINISTRATION	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
CONTINGENCIES	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
S U B T O T A L	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14

T O T A L : 330.40 290.61 305.81 326.81 279.21 297.93 326.56 267.30 290.30 324.25

EVALUATION INDICES

U S D / K W	1955.6	2085.2	2007.6	1964.9	2120.7	2032.6	1992.6	2153.7	2062.0	2024.4
U S D / K W H	1.150	1.247	1.207	1.185	1.252	1.208	1.159	1.254	1.210	1.193

PROJECT NAME : MADDELA
 PROJECT ID : 2-008-29-55-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(11.0)	(8.7)	(9.6)	(10.8)	(8.3)	(9.3)	(10.5)	(7.8)	(8.9)	(10.3)
STORAGE DAM	111.54	85.85	95.05	111.54	80.98	91.33	111.54	75.73	87.87	111.54
SPILLWAY	14.93	13.59	14.10	14.93	13.30	13.90	14.93	12.99	13.71	14.93
DIVERSION TUNNEL	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07
INTAKE (PRESSURE TYPE)	0.56	0.61	0.54	0.48	0.58	0.51	0.45	0.56	0.48	0.42
HEADRACE TUNNEL (PRESSURE)	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
SURGE TANK	0.24	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.21
PENSTOCK	0.92	0.80	0.86	0.93	0.79	0.85	0.92	0.77	0.84	0.92
(PRESSURE SHAFT)	(0.47)	(0.44)	(0.45)	(0.47)	(0.43)	(0.45)	(0.47)	(0.43)	(0.45)	(0.47)
(STEEL LINER)	(0.46)	(0.37)	(0.41)	(0.46)	(0.36)	(0.40)	(0.45)	(0.34)	(0.39)	(0.45)
POWERHOUSE BUILDING	0.54	0.46	0.49	0.52	0.44	0.47	0.51	0.41	0.45	0.49
(SUPER STRUCTURE)	(0.24)	(0.20)	(0.22)	(0.23)	(0.19)	(0.21)	(0.23)	(0.18)	(0.20)	(0.22)
(SUB STRUCTURE)	(0.30)	(0.25)	(0.27)	(0.29)	(0.24)	(0.26)	(0.28)	(0.23)	(0.25)	(0.27)
MISCELLANEOUS CIVIL WORK	6.95	5.58	6.07	6.94	5.32	5.87	6.94	5.04	5.69	6.93
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	3.26	2.87	3.00	3.14	2.76	2.90	3.06	2.65	2.80	2.97
ENGINEERING/ADMINISTRATION	18.64	15.02	16.31	18.61	14.32	15.78	18.59	13.57	15.28	18.57
CONTINGENCIES	33.55	27.03	29.36	33.50	25.77	28.40	33.46	24.42	27.50	33.43
S U B T O T A L	201.29	162.20	176.16	200.97	154.64	170.39	200.78	146.51	164.97	200.58

ACCESS ROAD (ROAD LENGTH 25.5 KM)

CONSTRUCTION COST	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61	5.61
ENGINEERING ADMINISTRATION	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
CONTINGENCIES	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
S U B T O T A L	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27

TRANSMISSION LINE SYSTEM (T/L LENGTH 54.0 KM)

TRANSMISSION LINE	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
CONTINGENCIES	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
S U B T O T A L	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96

T O T A L : 210.52 171.43 185.39 210.20 163.86 179.62 210.00 155.73 174.20 209.80

EVALUATION INDICES

U S D / K W : 19106.7 19664.4 19214.9 19534.6 19838.6 19359.9 19964.0 19960.6 19564.1 20449.0

U S D / K W H : 4.077 4.123 4.044 4.122 4.124 4.044 4.181 4.113 4.054 4.249

PROJECT NAME : KAGIPSIPAN
 PROJECT ID : 2-008-29-56-0
 TYPE : RESERVOIR

 * SUMMARY TABLE OF COST ESTIMATE *

(UNIT : MILLION USD)

I T E M	C A S E									
	1	2	3	4	5	6	7	8	9	10
POWER DEVELOPMENT (INST. CAP.(MW))	(158.4)	(129.1)	(141.9)	(156.5)	(122.1)	(136.4)	(153.1)	(115.3)	(131.0)	(149.5)
STORAGE DAM	127.29	104.22	112.97	127.29	99.02	109.59	127.29	93.89	106.10	127.29
SPILLWAY	24.61	22.62	23.41	24.61	22.13	23.10	24.61	21.64	22.79	24.61
DIVERSION TUNNEL	22.07	22.07	22.07	22.07	22.07	22.07	22.07	22.07	22.07	22.07
INTAKE (PRESSURE TYPE)	4.27	4.70	4.35	4.03	4.51	4.13	3.78	4.32	3.91	3.54
HEADRACE TUNNEL (PRESSURE)	6.74	6.65	6.63	6.61	6.49	6.47	6.44	6.33	6.31	6.27
SURGE TANK	2.85	2.82	2.79	2.77	2.72	2.70	2.67	2.63	2.60	2.57
PENSTOCK	6.92	5.69	6.27	6.92	5.48	6.12	6.86	5.27	5.97	6.78
(PRESSURE SHAFT)	(1.70)	(1.58)	(1.65)	(1.71)	(1.57)	(1.64)	(1.71)	(1.55)	(1.63)	(1.70)
(STEEL LINER)	(5.22)	(4.11)	(4.62)	(5.21)	(3.91)	(4.48)	(5.15)	(3.72)	(4.34)	(5.07)
POWERHOUSE BUILDING	10.52	9.12	9.70	10.34	8.69	9.35	10.07	8.27	8.99	9.79
(SUPER STRUCTURE)	(4.68)	(4.06)	(4.31)	(4.60)	(3.86)	(4.15)	(4.46)	(3.67)	(3.99)	(4.35)
(SUB STRUCTURE)	(5.84)	(5.07)	(5.39)	(5.74)	(4.83)	(5.19)	(5.60)	(4.59)	(4.99)	(5.44)
MISCELLANEOUS CIVIL WORK	10.26	8.89	9.41	10.23	8.56	9.18	10.19	8.22	8.94	10.15
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	33.65	30.44	31.71	33.06	29.24	30.68	32.22	28.05	29.64	31.35
ENGINEERING/ADMINISTRATION	27.60	25.66	26.41	27.52	25.14	26.04	27.42	24.61	25.67	27.32
CONTINGENCIES	55.35	48.58	51.15	55.09	46.81	49.88	54.72	45.06	48.60	54.35
S U B T O T A L	332.13	291.47	306.87	330.53	280.86	299.31	328.34	270.35	291.57	326.08

ACCESS ROAD (ROAD LENGTH 7.5 KM)

CONSTRUCTION COST	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
ENGINEERING ADMINISTRATION	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
CONTINGENCIES	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
S U B T O T A L	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14

TRANSMISSION LINE SYSTEM (T/L LENGTH 70.0 KM)

TRANSMISSION LINE	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77	7.77
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
ENGINEERING/ADMINISTRATION	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
CONTINGENCIES	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47
S U B T O T A L	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29

T O T A L : 345.56 304.90 320.31 343.96 294.29 312.74 341.77 283.79 305.00 339.52

EVALUATION INDICES

U S D / K W	2182.0	2360.8	2257.8	2198.2	2409.7	2292.1	2232.0	2461.5	2328.8	2271.0
U S D / K W H	1.330	1.413	1.360	1.329	1.424	1.364	1.334	1.434	1.369	1.341