

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	0.26	0.65	1.19	1.29
(SUPER STRUCTURE)	(0.05)	(0.11)	(0.29)	(0.53)	(0.57)
(SUB STRUCTURE)	(0.06)	(0.14)	(0.36)	(0.66)	(0.71)
MISCELLANEOUS CIVIL WORK	0.33	0.38	0.52	0.67	0.71
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.
POWER EQUIPMENT	0.76	1.65	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

(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))	(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	0.55	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)	(0.26)	(0.21)	(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	8972.7	9937.6	9386.8	9000.6	10050.2	9766.9	9266.9	11866.3	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 : 2-008-02-02-0
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))	(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	55.68	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	18298.7	18626.1	18704.1	18599.9	18553.0
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 : BASAO
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	0.50	0.86	0.86	0.50	0.86	0.86	0.50	0.50	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(NW))	(5.2)	(8.5)	(14.2)	(21.7)	(26.6)
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	0.46	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)
(SUB STRUCTURE)	(0.18)	(0.29)	(0.69)	(1.05)	(1.56)
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	5.33	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	13.09	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	368.70	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 : 464.31 387.86 412.36 463.84 373.98 401.24 462.95 358.69 389.51 461.47

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	0.865	0.890	0.852	0.849	0.886	0.842	0.844	0.883	0.836	0.844

PROJECT NAME : CHICO-2R
PROJECT ID : 2-003-03-06-0
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) (10.8) (18.0) (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)	(0.15) (0.25) (0.58) (0.89) (1.31)				
(SUB 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	1368.7	1331.5
U S D / K W H	0.369	0.411	0.471	0.524	0.573

PROJECT NAME : CHICO-3R
PROJECT ID : 2-008-03-07-0
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	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 6.6 KM)

TRANSMISSION LINE	0.15	0.15	0.15	0.15	0.15
SWITCHYARD AND SUBSTATION	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION	0.05	0.05	0.05	0.05	0.05
CONTINGENCIES	0.07	0.07	0.07	0.07	0.07
S U B T O T A L	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
-----------	------	-------	-------	-------	-------

EVALUATION INDICES

U S D / K W	2557.4	2057.6	1743.6	1519.2	1454.2
U S D / K W H	0.415	0.456	0.523	0.583	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	2.108	2.060	2.022	2.149	2.001	1.986	2.205	1.996	2.030	2.382

PROJECT NAME : CHICO-4R
PROJECT ID : 2-008-03-09-0
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))	(2.5) (3.8) (6.3) (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	0.19	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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
ENGINEERING ADMINISTRATION	0.00	0.00	0.00	0.00	0.00
CONTINGENCIES	0.00	0.00	0.00	0.00	0.00
S U B T O T A L	0.00	0.00	0.00	0.00	0.00

TRANSMISSION LINE SYSTEM (T/L LENGTH 1.2 KM)

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

EVALUATION INDICES

U S D / K W	3946.2	2836.7	2269.0	1926.4	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

(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))	(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)	(0.46)	(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	70.56	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 20.0 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	3556.3	3525.6	3487.1	3450.1	3414.6	3592.2	3409.8
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

(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))	(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	17.78	18.62	19.80
--	-------	-------	-------	-------	-------

EVALUATION INDICES

U S D / K W	19219.2	12234.4	7940.7	5818.1	5087.6
U S D / K W H	3.114	2.707	2.380	2.228	2.188

PROJECT NAME : PINUKPUK
PROJECT ID : 2-008-05-12-0
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))	(17.8)	(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)	(0.53)	(0.64)
MISCELLANEOUS CIVIL WORK	9.27	8.39	8.79	9.26	7.71	8.38	9.26	6.08	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	6.18	6.64	7.08
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	41.13	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	236.03	273.20
-----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

EVALUATION INDICES

U S D / K W	15375.9	15252.9	15023.8	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)	(52.5)	(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)	3.03	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)	(1.48)	(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	14.66	16.22	18.32	13.99	15.79	18.27	13.30	15.34	18.17
CONTINGENCIES	33.16	26.39	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	163.24	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	2955.7	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

* 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))	(17.1)	(11.1)	(13.2)	(15.0)	(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	0.59	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)	(0.80)	(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)	(0.28)	(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	20427.6	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

(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))	(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.)	5.62	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	1.88	1.88	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	2175.4	1995.7
U S D / K W H	0.939	0.054	0.813	0.835	0.860

PROJECT NAME : SALTAN-5
PROJECT ID : 2-008-05-1G-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	13.06	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	0.36	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)	(0.56)
POWERHOUSE BUILDING	0.37	0.28	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 WRK	4.98	3.39	4.05	4.97	3.13	3.88	4.97	2.89	3.71	4.98
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
-----------	--------	--------	--------	--------	-------	--------	--------	-------	--------	--------

EVALUATION INDICES

U S D / K W	19576.3	19596.9	19708.8	20599.3	19523.9	19799.3	21071.9	20291.4	20854.5	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	26.26	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	0.46	0.43	0.44	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)
POWERHOUSE 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)	(0.23)	(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	7.59	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	75.53	86.86	63.88	73.51	86.70
-----------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

EVALUATION INDICES

U S D / K W	10779.3	11247.5	10936.2	10847.5	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										
SPILLWAY	92.59	65.40	74.94	92.59	61.28	72.07	92.59	57.49	69.51	92.59
DIVERSION TUNNEL	22.48	19.61	20.69	22.48	19.13	20.39	22.48	18.65	20.09	22.48
INTAKE (PRESSURE TYPE)	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69	14.69
HEADRACE TUNNEL (PRESSURE)	2.25	2.41	2.18	2.00	2.33	2.08	1.90	2.22	1.96	1.78
SURGE TANK	3.82	3.73	3.72	3.70	3.67	3.66	3.65	3.59	3.58	3.57
PENSTOCK	1.43	1.39	1.38	1.37	1.36	1.35	1.34	1.32	1.31	1.30
(PRESSURE SHAFT)	4.62	3.72	4.12	4.61	3.62	4.05	4.59	3.49	3.95	4.53
(STEEL LINER)	(1.11)	(1.04)	(1.08)	(1.11)	(1.04)	(1.07)	(1.11)	(1.03)	(1.07)	(1.10)
POWERHOUSE BUILDING	(3.52)	(2.68)	(3.05)	(3.51)	(2.58)	(2.98)	(3.48)	(2.46)	(2.89)	(3.43)
(SUPER STRUCTURE)	3.78	3.14	3.39	3.68	3.03	3.30	3.63	2.89	3.18	3.54
(SUB STRUCTURE)	(1.68)	(1.39)	(1.50)	(1.64)	(1.35)	(1.47)	(1.61)	(1.29)	(1.42)	(1.57)
MISCELLANEOUS CIVIL WORK	(2.10)	(1.74)	(1.88)	(2.05)	(1.68)	(1.83)	(2.02)	(1.61)	(1.77)	(1.97)
CONSTRUCTION FACILITIES	7.28	5.70	6.25	7.26	5.46	6.08	7.24	5.22	5.91	7.22
POWER EQUIPMENT	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ENGINEERING/ADMINISTRATION	18.13	15.86	16.68	17.64	15.42	16.32	17.38	14.84	15.82	16.97
CONTINGENCIES	21.38	16.96	18.50	21.25	16.25	18.00	21.10	15.55	17.50	21.08
S U B T O T A L	38.49	30.52	33.31	38.26	29.25	32.40	38.14	27.99	31.50	37.95
	230.96	183.12	199.84	229.53	175.47	194.40	228.82	167.95	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	2.38	3.88	3.88	2.38	2.38	3.88	2.38	2.38	3.88
SWITCHYARD AND SUBSTATION	0.96	0.52	0.96	0.96	0.52	0.62	0.96	0.52	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	3.88	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	235.80	180.35	199.28	236.09	172.83	193.89	234.97
-----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

EVALUATION INDICES

U S D / K W	2896.5	2969.8	2914.2	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	1.260	1.233	1.265	1.272	1.236	1.276

PROJECT NAME : MT. BOLONTOT
PROJECT ID : 2-008-05-20-0
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))	(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	163.33	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	406.12	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	593.77
-----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

EVALUATION INDICES

U S D / K W	23202.1	22579.5	22640.4	24811.4	22469.1	22910.5	26117.9	23885.7	25211.7	30063.3
U S D / K W H	5.132	4.857	4.888	5.365	4.760	4.878	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	2.43
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	4.64	5.79	7.65	4.33	5.55	7.63	4.00	5.33	7.62
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 : 248.28 159.36 187.85 244.52 143.59 180.40 243.45 313.38 173.41 242.36

EVALUATION INDICES

U S D / K W	3128.4	3094.5	3057.4	3259.1	3116.3	3072.6	3326.0	3133.4	3098.1	3401.1
U S D / K W H	2.031	1.918	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)	(0.09 ) (	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 :	0.86	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
-----------	-------	-------	-------	-------	-------

EVALUATION INDICES

U S D / K W	3450.2	2326.4	1647.4	1362.6	1270.9
U S D / K W H	0.561	0.515	0.435	0.523	0.548

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	0.29	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 25.3 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

* 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))	(39.8)	(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	15.16	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)	(1.67)	(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)	(2.29)	(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	88.55

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 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	93.68	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)	(59.5)	(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	30.65	44.49
SPILLWAY	12.20	10.05	11.01	12.20	9.68	10.62	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	2.85	2.76	2.61	2.49
HEADRACE TUNNEL (PRESSURE)	3.38	3.33	3.33	3.32	3.25	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	1.02	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	10.78	12.79	8.70	10.36	12.56
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	116.18	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	2438.0	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 : 2-008-08-26-0
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)	(59.4)	(78.5)	(104.0)
STORAGE DAM	142.54	61.28	100.97	142.54	67.65	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	2.55	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
-----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

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 : TUJEGARAO
PROJECT ID : 2-008-08-27-0
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))	(1.8 ) (	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	2.55	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	1.65	2.33	3.05
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)	(15.9)	(20.1)
STORAGE DAM	298.14	228.58	249.86	288.14	217.60	241.71	298.14	206.12	234.17	293.14
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	462.89	351.76	385.27	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	0.08	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 : 469.63 373.68 403.22 469.39 358.26 391.77 469.11 342.08 381.05 468.74

EVALUATION INDICES

U S D / K W	22099.0	23566.4	22096.3	22234.9	23712.2	22216.9	22843.7	24001.4	22552.6	23264.6
U S D / K W H	4.714	4.961	4.681	4.722	4.958	4.680	4.781	4.974	4.714	4.875

PROJECT NAME : TUMAUNI-1
PROJECT ID : 2-008-11-29-0
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))	(68.7)	(49.4)	(57.7)	(67.5)	(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	2.94	2.07	1.82	2.24	1.95	1.70	2.13	1.83	1.58
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	2.05	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	8.23	5.95	6.78	8.26	5.60	5.53	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	186.78	211.67	254.92	176.17	203.99	253.85	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	3985.8	3846.3	3929.3	4016.4	3876.1	4012.2	4043.5	3906.4	4107.7
U S D / K W H	2.368	2.370	2.308	2.370	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	5.85
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	63.82	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	14373.9	14186.7	14033.4	14979.6	14673.5	14443.3
U S D / K W H	2.880	2.393	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))	(6.7)	(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	15362.3	14743.5	14623.4	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	1.83	1.83	1.75	1.87	1.75	1.85
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	5.26	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	0.96	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.	0.	0.	0.	0.	0.	0.	0.	0.	0.
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	3.52	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	35.41	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	5.28	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)	(2.18)	(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)	(5.39)	(4.42)	(4.82)	(5.26)	(4.18)	(4.63)	(5.12)
(SUB STRUCTURE)	(6.84)	(5.81)	(6.25)	(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	366.91

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	135.06	149.14
SPILLWAY	24.15	23.43	23.72	24.15	23.05	23.46	24.15	22.68	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
HEADRACE 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	28.90	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	334.62	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	0.96	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 : 396.59 377.38 384.87 395.39 367.01 377.48 393.95 357.10 369.85 392.35

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	1.190	1.208	1.191	1.180	1.207	1.188	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)	(85.5)	(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	15.95	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	3.35	3.05	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	2.65	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	5.15	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)	(1.92)
(SUB STRUCTURE)	(2.66)	(2.28)	(2.44)	(2.61)	(2.17)	(2.34)	(2.53)	(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	29.85	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	4.62	7.55	7.55
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.62	0.96	0.96
ENGINEERING/ADMINISTRATION	1.06	1.06	1.06	1.06	1.06	1.06	1.06	0.66	1.06	1.06
CONTINGENCIES	1.44	1.44	1.44	1.44	1.44	1.44	1.44	0.88	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	6.78	11.01	11.01

T O T A L	264.76	232.45	243.78	263.69	224.11	237.84	282.20	211.56	232.01	260.67
-----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

EVALUATION INDICES

U S D / K W	2749.8	3004.8	2852.5	2767.3	3069.5	2895.7	2810.1	3075.5	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	43.07	33.74	37.26	43.97
SPILLWAY	9.64	9.27	9.41	9.64	3.96	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
PENSTOCK	7.22	6.84	6.90	6.96	6.55	6.64	6.71	6.19	6.30	6.40
(PRESSURE SHAFT)	(1.66)	(1.63)	(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	1.69	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	3.75	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	0.67	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	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	2613.8	2726.2	2612.1	2693.5	2875.8
U S D / K W H	1.067	1.061	1.071	1.092	1.064	1.073	1.116	1.051	1.082	1.150

PROJECT NAME : BALLASANG
PROJECT ID : 2-008-15-38-0
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)	(103.2)	(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	4.59	4.63	4.37	4.59	4.25	3.94	4.26	3.87	3.53
HEADRACE TUNNEL (PRESSURE)	6.80	5.71	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	2.86	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)	(1.51)	(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	8.86	10.00	7.61	8.47	9.52
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	27.88	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	315.08	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	1.416	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
SPIILLWAY	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)	(1.09)	(1.95)	(2.01)	(1.83)	(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)	(4.90)	(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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	29.26	26.96	27.80	29.17
CONTINGENCIES	62.25	56.62	58.53	61.81	54.92	57.35	61.51	53.09	56.11	61.16
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	376.59
-----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

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 : 2-008-16-40-0
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(NW))	(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	2.20	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)	(1.18)	(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	12.14	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	21.96	23.98
S U B T O T A L	149.61	139.69	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	139.81	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	3345.1	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 : 2-003-15-41-0
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	0.41	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	4.64	5.07	5.88	4.35	4.86	5.86
CONTINGENCIES	10.68	8.84	9.49	10.84	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 : 2-009-16-42-0
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	51.99	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)	0.58	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	0.60	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)	(0.23)	(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	18.01	18.34	15.36	15.85	16.52	17.36	18.32	15.03	18.30
S U B T O T A L	110.53	98.05	110.03	92.16	95.12	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	11697.5	11574.3	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	2.536	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
HEADRACE 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	4.53	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	170.16	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 35.0 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	2903.7	2874.5	3026.7	2936.0	2904.0
U S D / K W H	1.676	1.722	1.607	1.671	1.725	1.685	1.670	1.728	1.685	1.671

PROJECT NAME : ALIMIT-2
PROJECT ID : 2-008-19-44-0
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))	(74.0)	(62.2)	(67.4)	(73.2)	(59.5)	(65.4)	(72.3)	(56.6)	(63.3)	(71.1)
STORAGE DAM	104.06	85.33	93.91	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)	3.69	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)	(1.62)	(1.43)	(1.51)	(1.59)	(1.38)	(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	238.04	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	0.69	0.43	0.43	0.69	0.43	0.43	0.69	0.43	0.43	0.69
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
-----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

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	1.999	2.033	1.937	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	3.18	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) (0.85)	(0.87) (0.87)	(0.85) (0.85)	(0.87) (0.87)	(0.85) (0.85)	(0.84) (0.84)	(0.87) (0.87)	(0.90) (0.90)
(STEEL LINER)	(3.06) (2.66)	(2.66) (2.86)	(2.86) (3.07)	(3.07) (2.56)	(2.56) (2.80)	(2.80) (3.07)	(3.07) (2.46)	(2.46) (2.74)	(2.74) (3.05)	(3.05) (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)	(2.00) (1.83)	(1.83) (2.10)	(2.10) (1.83)	(1.83) (1.94)	(1.94) (2.06)	(2.06) (2.06)	(2.06) (2.06)
(SUB STRUCTURE)	(2.71) (2.48)	(2.57) (2.67)	(2.67) (2.39)	(2.39) (2.50)	(2.50) (2.63)	(2.63) (2.29)	(2.29) (2.43)	(2.43) (2.58)	(2.58) (2.58)	(2.58) (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	25.73	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 : 2-008-20-45-0
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	0.38	0.42	0.45	0.47
INTAKE (NON-PRESSURE TYPE)	0.10	0.15	0.20	0.26	0.30
HEADRACE TUNNEL (NON-PRES.)	5.27	5.27	5.39	6.47	7.18
HEAD TANK	0.03	0.13	0.17	0.22	0.25
PENSTOCK	1.16	1.34	1.54	1.85	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)	(0.38)	(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	1.26	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

* 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))	(1.6)	(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	0.60	0.75
(SUPER STRUCTURE)	(0.03)	(0.07)	(0.15)	(0.27)	(0.33)
(SUB STRUCTURE)	(0.04)	(0.08)	(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	5125.3	4000.7	3467.4
U S D / K W H	2.403	1.895	1.720	1.656	1.630

PROJECT NAME : NATUNO-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	0.09	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)
MISCELLANEOUS CIVIL WORK	(0.03)	(0.06)	(0.15)	(0.26)	(0.32)
CONSTRUCTION FACILITIES	0.30	0.32	0.33	0.36	0.37
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	19.46	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	2.009	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	0.25	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	6.43	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	5.688	5.626	5.606

PROJECT NAME : PINARIPAD
PROJECT ID : 2-008-26-50-0
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))	(80.3)	(70.6)	(74.6)	(78.7)	(66.0)	(71.2)	(76.5)	(61.5)	(67.7)	(74.2)
STORAGE DAM	65.39	50.05	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)	(3.28)	(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	24.10	21.55	22.45	23.34
ENGINEERING/ADMINISTRATION	13.71	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	2.58	4.22	4.22	2.58	4.22	4.22
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.62	0.96	0.96	0.62	0.96	0.96
ENGINEERING/ADMINISTRATION	0.65	0.65	0.65	0.65	0.40	0.65	0.65	0.40	0.65	0.65
CONTINGENCIES	0.87	0.87	0.87	0.87	0.54	0.87	0.87	0.54	0.87	0.87
S U B T O T A L	6.70	6.70	6.70	6.70	4.15	6.70	6.70	4.15	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	2891.1	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	57.09
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	2.29	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)
MISCELLANEOUS CIVIL WORK	(1.42)	(1.14)	(1.25)	(1.38)	(1.07)	(1.20)	(1.34)	(1.01)	(1.15)	(1.31)
CONSTRUCTION FACILITIES	5.12	3.86	4.34	5.10	3.55	4.19	5.09	3.44	4.04	5.07
POWER EQUIPMENT	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ENGINEERING/ADMINISTRATION	13.28	11.38	12.15	12.96	10.86	11.72	12.62	10.34	11.29	12.26
CONTINGENCIES	15.09	11.57	12.90	15.01	10.94	12.45	14.93	10.31	12.01	14.85
SUB TOTAL	27.17	20.82	23.23	27.02	19.69	22.42	26.88	18.56	21.62	26.72
	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
SUB TOTAL	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	3.88	3.88
SWITCHYARD AND SUBSTATION	0.62	0.54	0.62	0.62	0.54	0.62	0.62	0.54	0.62	0.62
ENGINEERING/ADMINISTRATION	0.56	0.40	0.56	0.56	0.40	0.56	0.56	0.40	0.56	0.56
CONTINGENCIES	0.76	0.53	0.76	0.76	0.53	0.76	0.76	0.53	0.76	0.76
SUB TOTAL	5.82	4.09	5.82	5.82	4.09	5.82	5.82	4.09	5.82	5.82

TOTAL	173.95	134.14	150.31	173.09	127.34	145.46	172.20	120.60	138.95	171.28
-------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

EVALUATION INDICES

USD / KWH	3462.6	3670.5	3537.3	3512.1	3731.2	3578.3	3572.3	3795.8	3578.9	3641.9
USD / KWH	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 : 2-008-28-52-0
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)	(260.2)	(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	56.84	67.46	83.50
SPILLWAY	27.53	24.69	25.91	27.53	24.10	25.58	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	22.75	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	3.91	7.55	8.10	8.85	7.24	7.89	8.78	6.94	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	48.36	51.78	54.72	46.71	49.93	53.17
ENGINEERING/ADMINISTRATION	27.34	25.18	26.06	27.17	24.63	25.68	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	8.47	8.47	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	1536.8	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

* 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))	(1.3)	(2.7)	(4.6)	(6.8)	(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	0.29	0.53	0.62
(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	0.56	0.67	0.84	0.92
CONTINGENCIES	0.27	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	15868.2	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	2.93	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	3.83	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)	(5.46)	(5.86)	(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	308.41

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	328.81	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	1.190	1.247	1.207	1.185	1.252	1.208	1.189	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(KW))	(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	19105.7	19664.4	19214.9	19534.6	19838.6	19359.9	19964.0	19560.6	19564.1	20449.0
U S D / K W H	4.077	4.123	4.044	4.122	4.124	4.044	4.101	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))	(159.4)	(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)	(4.48)	(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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

PROJECT NAME : GADENG
PROJECT ID : 2-008-29-57-0
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))	(140.0)	(115.3)	(126.2)	(138.5)	(109.0)	(121.4)	(135.8)	(102.8)	(116.6)	(132.7)
STORAGE DAM	165.47	134.66	146.92	165.47	127.34	141.84	165.47	119.66	137.21	165.47
SPILLWAY	23.02	21.23	21.96	23.02	20.77	21.67	23.02	20.29	21.39	23.02
DIVERSION TUNNEL	13.87	13.87	13.87	13.87	13.87	13.87	13.87	13.87	13.87	13.87
INTAKE (PRESSURE TYPE)	4.08	4.43	4.12	3.84	4.25	3.91	3.60	4.07	3.70	3.36
HEADRACE TUNNEL (PRESSURE)	2.44	2.41	2.40	2.39	2.35	2.34	2.33	2.29	2.28	2.27
SURGE TANK	2.20	2.19	2.16	2.13	2.11	2.08	2.05	2.04	2.00	1.97
PENSTOCK	6.97	5.87	6.39	6.97	5.66	6.24	6.91	5.45	6.09	6.83
(PRESSURE SHAFT)	(1.84)	(1.73)	(1.79)	(1.84)	(1.72)	(1.76)	(1.84)	(1.70)	(1.77)	(1.84)
(STEEL LINER)	(5.13)	(4.14)	(4.60)	(5.12)	(3.94)	(4.46)	(5.07)	(3.75)	(4.32)	(4.99)
POWERHOUSE BUILDING	9.51	8.30	8.80	9.36	7.91	8.48	9.12	7.52	8.16	8.88
(SUPER STRUCTURE)	(4.23)	(3.69)	(3.91)	(4.16)	(3.51)	(3.77)	(4.05)	(3.34)	(3.63)	(3.95)
(SUB STRUCTURE)	(5.28)	(4.61)	(4.89)	(5.20)	(4.39)	(4.71)	(5.07)	(4.18)	(4.54)	(4.93)
MISCELLANEOUS CIVIL WORK	11.38	9.65	10.33	11.35	9.21	10.02	11.32	8.76	9.73	11.28
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	31.04	28.21	29.32	30.52	27.09	28.37	29.76	25.97	27.42	28.97
ENGINEERING/ADMINISTRATION	28.79	26.50	27.43	28.73	25.87	26.98	28.65	25.20	26.56	28.56
CONTINGENCIES	59.75	51.46	54.74	59.53	49.29	53.16	59.22	47.02	51.68	58.90
S U B T O T A L	358.51	308.77	328.45	357.18	295.71	318.97	355.32	282.13	310.11	353.39

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 69.0 KM)

TRANSMISSION LINE	7.66	7.66	7.66	7.66	7.66	7.66	7.66	7.66	7.66	7.66
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	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08
CONTINGENCIES	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
S U B T O T A L	11.15	11.15	11.15	11.15	11.15	11.15	11.15	11.15	11.15	11.15

T O T A L : 370.37 320.63 340.32 369.04 307.58 330.84 367.18 293.99 321.97 365.26

EVALUATION INDICES

U S D / K W	2646.3	2782.0	2697.7	2663.6	2822.4	2725.4	2704.4	2860.6	2760.6	2751.9
U S D / K W H	1.611	1.655	1.623	1.608	1.667	1.620	1.614	1.666	1.621	1.623

PROJECT NAME : CASECNAN
PROJECT ID : 2-008-29-58-0
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))	(1.9)	(3.7)	(6.5)	(9.7)	(11.2)
DIVERSION DAM/WEIR :	0.44	0.49	0.55	0.61	0.63
INTAKE (NON-PRESSURE TYPE) :	0.14	0.23	0.33	0.43	0.48
HEADRACE TUNNEL (NON-PRES.) :	3.70	4.11	5.49	6.96	7.60
HEAD TANK :	0.12	0.19	0.27	0.34	0.37
PENSTOCK :	0.48	0.57	0.71	0.86	0.92
(PRESSURE SHAFT)	(0.31)	(0.35)	(0.41)	(0.46)	(0.48)
(STEEL LINER)	(0.16)	(0.22)	(0.30)	(0.39)	(0.44)
POWERHOUSE BUILDING :	0.10	0.20	0.50	0.92	1.06
(SUPER STRUCTURE)	(0.05)	(0.09)	(0.22)	(0.41)	(0.47)
(SUB STRUCTURE)	(0.06)	(0.11)	(0.28)	(0.51)	(0.59)
MISCELLANEOUS CIVIL WORK :	0.25	0.29	0.39	0.51	0.55
CONSTRUCTION FACILITIES :	0.	0.	0.	0.	0.
POWER EQUIPMENT :	0.76	1.41	2.33	3.33	3.80
ENGINEERING/ADMINISTRATION :	0.75	0.94	1.32	1.74	1.93
CONTINGENCIES :	1.35	1.68	2.38	3.14	3.47
S U B T O T A L	8.10	10.10	14.27	18.83	20.82

ACCESS ROAD (ROAD LENGTH 10.0 KM)

CONSTRUCTION COST :	2.20	2.20	2.20	2.20	2.20
ENGINEERING ADMINISTRATION :	0.18	0.18	0.18	0.18	0.18
CONTINGENCIES :	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

TRANSMISSION LINE SYSTEM (T/L LENGTH 66.0 KM)

TRANSMISSION LINE :	1.52	1.52	1.52	1.52	1.52
SWITCHYARD AND SUBSTATION :	0.27	0.27	0.27	0.27	0.27
ENGINEERING/ADMINISTRATION :	0.22	0.22	0.22	0.22	0.22
CONTINGENCIES :	0.30	0.30	0.30	0.30	0.30
S U B T O T A L	2.31	2.31	2.31	2.31	2.31

T O T A L	13.26	15.27	19.43	24.00	25.98
-----------	-------	-------	-------	-------	-------

EVALUATION INDICES

U S D / K W	6940.5	4150.6	2995.0	2474.6	2309.8
U S D / K W H	1.132	1.035	1.004	1.035	1.054

PROJECT NAME : UPPER CASENHAN
PROJECT ID : 2-008-29-59-0
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))	(2.1)	(4.0)	(7.0)	(10.5)	(12.2)
DIVERSION DAM/WEIR	0.38	0.42	0.47	0.51	0.53
INTAKE (NON-PRESSURE TYPE)	0.13	0.21	0.30	0.39	0.43
HEADRACE TUNNEL (NON-PRES.)	4.45	4.60	6.00	7.67	8.37
HEAD TANK	0.11	0.18	0.25	0.31	0.34
PENSTOCK	0.50	0.57	0.72	0.87	0.94
(PRESSURE SHAFT)	(0.32)	(0.34)	(0.40)	(0.45)	(0.47)
(STEEL LINER)	(0.18)	(0.23)	(0.32)	(0.42)	(0.47)
POWERHOUSE BUILDING	0.10	0.20	0.50	0.92	1.06
(SUPER STRUCTURE)	(0.05)	(0.09)	(0.22)	(0.41)	(0.47)
MISCELLANEOUS CIVIL WORK	(0.06)	(0.11)	(0.28)	(0.51)	(0.59)
CONSTRUCTION FACILITIES	0.28	0.31	0.41	0.53	0.58
POWER EQUIPMENT	0.74	1.37	2.25	3.23	3.69
ENGINEERING/ADMINISTRATION	0.84	0.98	1.36	1.80	1.99
CONTINGENCIES	1.51	1.77	2.45	3.25	3.59
S U B T O T A L	9.05	10.60	14.69	19.48	21.53

ACCESS ROAD (ROAD LENGTH 17.0 KM)

CONSTRUCTION COST	3.74	3.74	3.74	3.74	3.74
ENGINEERING ADMINISTRATION	0.30	0.30	0.30	0.30	0.30
CONTINGENCIES	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

TRANSMISSION LINE SYSTEM (T/L LENGTH 57.6 KM)

TRANSMISSION LINE	1.32	1.32	1.32	1.32	1.32
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	2.06	2.06	2.06	2.06	2.06

T O T A L : 15.96 17.51 21.60 26.39 28.44

EVALUATION INDICES

U S D / K W	7618.0	4380.5	3100.6	2512.8	2335.3
U S D / K W H	1.243	1.093	1.040	1.052	1.067

PROJECT NAME : UPPER CASEGNAN-2
PROJECT ID : 2-008-29-60-0
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))	(64.0)	(61.7)	(62.4)	(63.2)	(60.6)	(61.5)	(62.5)	(58.8)	(60.0)	(61.4)
STORAGE DAM	64.56	62.62	63.32	64.56	61.72	62.75	64.56	60.35	61.81	64.56
SPILLWAY	14.26	14.09	14.16	14.26	14.00	14.10	14.26	13.87	14.01	14.26
DIVERSION TUNNEL	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23
INTAKE (PRESSURE TYPE)	1.54	1.49	1.42	1.35	1.47	1.37	1.28	1.43	1.31	1.19
HEADRACE TUNNEL (PRESSURE)	23.95	23.46	23.40	23.33	23.21	23.13	23.04	22.83	22.72	22.60
SURGE TANK	1.46	1.42	1.41	1.40	1.40	1.39	1.38	1.36	1.36	1.35
PENSTOCK	4.39	4.28	4.34	4.41	4.22	4.31	4.39	4.13	4.24	4.36
(PRESSURE SHAFT)	(1.12)	(1.11)	(1.12)	(1.13)	(1.11)	(1.12)	(1.13)	(1.10)	(1.11)	(1.13)
(STEEL LINER)	(3.27)	(3.17)	(3.22)	(3.28)	(3.11)	(3.19)	(3.26)	(3.03)	(3.13)	(3.23)
POWERHOUSE BUILDING	2.69	2.60	2.62	2.63	2.55	2.58	2.60	2.49	2.51	2.55
(SUPER STRUCTURE)	(1.19)	(1.15)	(1.16)	(1.17)	(1.14)	(1.14)	(1.16)	(1.11)	(1.12)	(1.13)
(SUB STRUCTURE)	(1.49)	(1.44)	(1.45)	(1.46)	(1.42)	(1.43)	(1.44)	(1.38)	(1.40)	(1.41)
MISCELLANEOUS CIVIL WORK	5.95	5.81	5.84	5.91	5.74	5.79	5.89	5.63	5.71	5.86
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	12.81	12.44	12.48	12.53	12.25	12.31	12.37	11.97	12.04	12.12
ENGINEERING/ADMINISTRATION	17.23	16.81	16.90	17.08	16.60	16.74	17.00	16.29	16.49	16.88
CONTINGENCIES	31.02	30.25	30.42	30.74	29.88	30.14	30.60	29.32	29.69	30.39
S U B T O T A L	186.11	181.50	182.55	184.45	179.28	180.84	183.62	175.91	178.14	182.36

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 51.0 KM)

TRANSMISSION LINE	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47
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	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
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	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29

T O T A L	194.82	190.21	191.26	193.16	187.99	189.55	192.33	184.52	186.85	191.07
-----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

EVALUATION INDICES

U S D / K W	3045.8	3083.4	3065.1	3057.7	3104.3	3082.6	3076.6	3137.2	3111.9	3112.3
U S D / K W H	1.294	1.299	1.291	1.287	1.302	1.292	1.289	1.306	1.295	1.295

PROJECT NAME : UPPER CASECNAN-3
PROJECT ID : 2-008-29-61-0
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))	(70.0)	(57.7)	(57.8)	(57.9)	(58.0)	(58.1)	(55.9)	(56.0)	(56.3)	(56.3)
STORAGE DAM	41.70	40.34	40.58	40.82	41.25	41.70	39.29	39.63	40.98	41.70
SPILLWAY	9.54	9.41	9.43	9.45	9.50	9.54	9.30	9.34	9.47	9.54
DIVERSION TUNNEL	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45
INTAKE (PRESSURE TYPE)	0.96	0.93	0.92	0.90	0.89	0.88	0.90	0.88	0.84	0.81
HEADRACE TUNNEL (PRESSURE)	29.08	28.50	28.48	28.45	28.43	28.40	28.03	27.99	27.91	27.82
SURGE TANK	1.13	1.10	1.10	1.10	1.10	1.10	1.08	1.08	1.07	1.07
PENSTOCK	14.81	14.44	14.45	14.47	14.49	14.51	14.14	14.17	14.23	14.23
(PRESSURE SHAFT)	(3.30)	(3.27)	(3.27)	(3.27)	(3.27)	(3.27)	(3.25)	(3.25)	(3.25)	(3.25)
(STEEL LINER)	(11.51)	(11.17)	(11.18)	(11.20)	(11.22)	(11.24)	(10.89)	(10.92)	(10.98)	(10.98)
POWERHOUSE BUILDING	2.52	2.44	2.44	2.44	2.45	2.45	2.38	2.38	2.38	2.38
(SUPER STRUCTURE)	(1.12)	(1.09)	(1.09)	(1.09)	(1.09)	(1.09)	(1.06)	(1.06)	(1.06)	(1.06)
(SUB STRUCTURE)	(1.40)	(1.36)	(1.36)	(1.36)	(1.36)	(1.36)	(1.32)	(1.32)	(1.32)	(1.32)
MISCELLANEOUS CIVIL WORK	5.26	5.13	5.14	5.16	5.18	5.20	5.03	5.05	5.12	5.15
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	11.27	10.97	10.97	10.97	10.97	10.97	10.72	10.72	10.72	10.70
ENGINEERING/ADMINISTRATION	15.22	14.84	14.87	14.90	14.96	15.03	14.54	14.59	14.77	14.86
CONTINGENCIES	27.39	26.71	26.77	26.83	26.94	27.05	26.17	26.25	26.59	26.74
S U B T O T A L	164.33	160.27	160.61	160.95	161.62	162.20	157.04	157.53	159.53	160.45

ACCESS ROAD (ROAD LENGTH 37.0 KM)

CONSTRUCTION COST	8.14	8.14	8.14	8.14	8.14	8.14	8.14	8.14	8.14	8.14
ENGINEERING ADMINISTRATION	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
CONTINGENCIES	1.76	1.76	1.76	1.76	1.76	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	10.55	10.55	10.55	10.55	10.55

TRANSMISSION LINE SYSTEM (T/L LENGTH 48.0 KM)

TRANSMISSION LINE	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
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	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
CONTINGENCIES	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
S U B T O T A L	5.02	5.02	5.02	5.02	5.02	5.02	5.02	5.02	5.02	5.02

T O T A L	179.90	175.84	176.18	176.53	177.19	177.85	172.61	173.10	175.11	176.03
-----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

EVALUATION INDICES

U S D / K W	2571.7	2597.4	2599.3	2601.4	2607.3	2613.3	2619.9	2622.5	2641.5	2656.1
U S D / K W H	1.088	1.090	1.091	1.091	1.094	1.096	1.092	1.093	1.100	1.105

PROJECT NAME : TABOAN
PROJECT ID : 2-032-00-01-0
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))	(47.9)	(39.7)	(44.6)	(50.3)	(38.2)	(43.6)	(50.2)	(35.1)	(42.0)	(49.4)
STORAGE DAM	53.35	41.43	45.96	53.35	39.17	44.25	53.35	36.64	42.56	53.35
SPILLWAY	13.03	11.74	12.25	13.03	11.47	12.07	13.03	11.16	11.88	13.03
DIVERSION TUNNEL	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.38
INTAKE (PRESSURE TYPE)	2.85	2.53	2.34	2.18	2.47	2.26	2.08	2.38	2.15	1.97
HEADRACE TUNNEL (PRESSURE)	2.30	2.19	2.17	2.16	2.16	2.15	2.14	2.12	2.11	2.09
SURGE TANK	1.52	1.42	1.40	1.38	1.39	1.37	1.36	1.36	1.34	1.32
PENSTOCK	0.95	0.85	0.97	1.09	0.84	0.96	1.11	0.81	0.95	1.11
(PRESSURE SHAFT)	(0.32)	(0.31)	(0.33)	(0.35)	(0.31)	(0.33)	(0.35)	(0.31)	(0.33)	(0.35)
(STEEL LINER)	(0.63)	(0.54)	(0.63)	(0.74)	(0.53)	(0.63)	(0.75)	(0.50)	(0.61)	(0.74)
POWERHOUSE BUILDING	2.83	2.44	2.63	2.84	2.36	2.58	2.82	2.26	2.49	2.77
(SUPER STRUCTURE)	(1.26)	(1.08)	(1.17)	(1.26)	(1.05)	(1.14)	(1.25)	(1.00)	(1.11)	(1.23)
(SUB STRUCTURE)	(1.57)	(1.36)	(1.46)	(1.58)	(1.31)	(1.43)	(1.57)	(1.25)	(1.38)	(1.54)
MISCELLANEOUS CIVIL WORK	4.16	3.45	3.70	4.12	3.31	3.60	4.11	3.15	3.49	4.10
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	15.64	13.93	14.61	15.38	13.58	14.37	15.25	13.09	13.96	14.95
ENGINEERING/ADMINISTRATION	12.88	10.79	11.55	12.74	10.39	11.25	12.70	9.92	10.91	12.63
CONTINGENCIES	23.18	19.43	20.79	22.93	18.71	20.25	22.87	17.86	19.64	22.74
S U B T O T A L	139.07	116.57	124.75	137.58	112.25	121.47	137.19	107.14	117.85	136.43

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 68.0 KM)

TRANSMISSION LINE	4.62	3.13	4.62	4.62	3.13	4.62	4.62	3.13	4.62	4.62
SWITCHYARD AND SUBSTATION	0.62	0.54	0.62	0.62	0.54	0.62	0.62	0.54	0.62	0.62
ENGINEERING/ADMINISTRATION	0.66	0.46	0.66	0.66	0.46	0.66	0.66	0.46	0.66	0.66
CONTINGENCIES	0.88	0.62	0.88	0.88	0.62	0.88	0.88	0.62	0.88	0.88
S U B T O T A L	6.78	4.75	6.78	6.78	4.75	6.78	6.78	4.75	6.78	6.78

T O T A L	147.56	123.03	133.25	146.08	118.70	129.97	145.69	113.60	126.36	144.93
-----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

EVALUATION INDICES

U S D / K W	3081.0	3095.6	2690.8	2905.3	3110.4	2981.8	2902.3	3148.7	3006.3	2933.8
U S D / K W H	1.282	1.257	1.220	1.189	1.257	1.212	1.183	1.260	1.211	1.186

PROJECT NAME : DIKATAYAN
PROJECT ID : 2-039-00-01-0
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))	(117.5)	(82.5)	(97.2)	(116.4)	(72.2)	(88.9)	(111.0)	(63.7)	(81.2)	(104.6)
STORAGE DAM	123.31	83.79	95.94	123.31	72.67	87.22	123.31	62.26	80.54	123.31
SPILLWAY	17.70	15.07	15.95	17.70	14.19	15.34	17.70	13.30	14.82	17.70
DIVERSION TUNNEL	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
INTAKE (PRESSURE TYPE)	3.43	3.91	3.45	3.08	3.58	3.11	2.74	3.21	2.72	2.38
HEADRACE TUNNEL (PRESSURE)	4.13	4.05	4.03	4.01	3.85	3.15	3.13	3.00	2.98	2.95
SURGE TANK	2.14	2.12	2.08	2.05	1.97	1.89	1.86	1.78	1.74	1.71
PENSTOCK	5.14	3.30	4.42	5.19	3.52	3.53	4.35	2.68	3.33	4.20
(PRESSURE SHAFT)	(1.47)	(1.32)	(1.41)	(1.49)	(1.29)	(0.85)	(0.91)	(0.78)	(0.84)	(0.90)
(STEEL LINER)	(3.67)	(2.48)	(3.01)	(3.70)	(2.22)	(2.68)	(3.44)	(1.90)	(2.49)	(3.30)
POWERHOUSE BUILDING	8.02	6.28	6.99	7.87	5.61	4.55	5.25	3.56	4.18	4.93
(SUPER STRUCTURE)	(3.57)	(2.79)	(3.11)	(3.50)	(2.50)	(2.02)	(2.34)	(1.58)	(1.86)	(2.19)
(SUB STRUCTURE)	(4.46)	(3.49)	(3.89)	(4.37)	(3.12)	(2.53)	(2.92)	(1.98)	(2.32)	(2.74)
MISCELLANEOUS CIVIL WORK	8.59	6.35	7.04	8.56	5.67	6.34	8.32	4.89	5.92	8.26
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	26.71	22.50	24.16	26.12	20.54	22.48	24.74	18.77	20.85	23.25
ENGINEERING/ADMINISTRATION	25.03	19.48	21.51	24.95	17.45	19.45	24.53	15.18	18.14	24.35
CONTINGENCIES	46.44	35.07	38.72	46.17	31.41	35.01	44.79	27.33	32.64	44.21
S U B T O T A L	278.65	210.42	232.31	277.01	188.46	210.07	268.71	163.96	195.87	265.24

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 27.0 KM)

TRANSMISSION LINE	3.00	3.00	3.00	3.00	3.00	3.00	3.00	1.34	3.00	3.00
SWITCHYARD AND SUBSTATION	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.62	0.96	0.96
ENGINEERING/ADMINISTRATION	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.31	0.49	0.49
CONTINGENCIES	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.41	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	3.18	5.12	5.12

T O T A L : 286.62 218.39 240.29 284.98 196.43 218.04 276.58 169.99 203.84 273.21

EVALUATION INDICES

U S D / K W	2439.8	2648.8	2472.4	2448.6	2721.6	2453.1	2492.4	2668.9	2508.9	2611.2
U S D / K W H	1.493	1.576	1.488	1.482	1.574	1.441	1.473	1.499	1.435	1.502

PROJECT NAME : PALANAN
PROJECT ID : 2-047-00-01-0
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))	(23.4)	(19.3)	(20.2)	(21.1)	(17.1)	(18.4)	(19.7)	(13.5)	(15.2)	(16.8)
STORAGE DAM	12.60	11.11	11.86	12.60	10.13	11.41	12.60	8.64	10.53	12.60
SPILLWAY	9.22	8.80	9.01	9.22	8.53	8.89	9.22	8.07	8.64	9.22
DIVERSION TUNNEL	7.24	7.24	7.24	7.24	7.24	7.24	7.24	7.24	7.24	7.24
INTAKE (PRESSURE TYPE)	1.47	1.25	1.22	1.19	1.13	1.10	1.06	0.92	0.88	0.84
HEADRACE TUNNEL (PRESSURE)	1.90	1.72	1.72	1.72	1.62	1.62	1.61	1.44	1.43	1.42
SURGE TANK	1.05	0.92	0.92	0.91	0.85	0.85	0.84	0.72	0.71	0.71
PENSTOCK	0.61	0.55	0.57	0.59	0.52	0.54	0.57	0.46	0.49	0.53
(PRESSURE SHAFT)	(0.27)	(0.26)	(0.27)	(0.27)	(0.26)	(0.26)	(0.27)	(0.24)	(0.25)	(0.26)
(STEEL LINER)	(0.34)	(0.29)	(0.30)	(0.32)	(0.26)	(0.28)	(0.30)	(0.22)	(0.24)	(0.27)
POWERHOUSE BUILDING	1.54	1.30	1.34	1.37	1.17	1.22	1.26	0.94	1.01	1.08
(SUPER STRUCTURE)	(0.69)	(0.58)	(0.59)	(0.61)	(0.52)	(0.54)	(0.57)	(0.42)	(0.45)	(0.48)
(SUB STRUCTURE)	(0.66)	(0.72)	(0.74)	(0.76)	(0.65)	(0.68)	(0.71)	(0.52)	(0.56)	(0.60)
MISCELLANEOUS CIVIL WORK	1.78	1.64	1.69	1.74	1.56	1.64	1.72	1.42	1.55	1.68
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	9.52	8.21	8.38	8.53	7.51	7.75	7.96	6.25	6.56	6.85
ENGINEERING/ADMINISTRATION	5.87	5.34	5.49	5.64	5.03	5.28	5.51	4.51	4.88	5.27
CONTINGENCIES	10.56	9.62	9.89	10.15	9.06	9.51	9.92	8.12	8.79	9.49
S U B T O T A L	63.36	57.72	59.32	60.91	54.36	57.04	59.54	48.73	52.73	56.94

ACCESS ROAD (ROAD LENGTH 27.0 KM)

CONSTRUCTION COST	5.94	5.94	5.94	5.94	5.94	5.94	5.94	5.94	5.94	5.94
ENGINEERING ADMINISTRATION	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
CONTINGENCIES	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
S U B T O T A L	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70	7.70

TRANSMISSION LINE SYSTEM (T/L LENGTH 68.0 KM)

TRANSMISSION LINE	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56
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	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
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	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37

T O T A L	73.43	67.79	69.39	70.98	64.43	67.11	69.61	58.80	62.80	67.02
-----------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

EVALUATION INDICES

U S D / K W	3143.9	3514.1	3436.2	3364.9	3758.5	3640.6	3537.6	4349.1	4138.3	3984.6
U S D / K W H	1.691	1.781	1.746	1.715	1.836	1.785	1.740	1.959	1.873	1.809

PROJECT NAME : MALUPA
PROJECT ID : 3-013-00-01-0
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))	(14.2)	(11.5)	(15.2)	(11.0)	(11.9)	(12.9)	(13.9)	(15.1)	(10.4)	(14.8)
STORAGE DAM	275.53	220.25	275.53	208.96	218.38	231.90	250.28	275.53	197.98	275.53
SPILLWAY	14.78	13.31	14.78	13.00	13.26	13.64	14.14	14.78	12.68	14.78
DIVERSION TUNNEL	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
INTAKE (PRESSURE TYPE)	1.03	0.89	0.67	0.87	0.81	0.74	0.69	0.63	0.83	0.58
HEADRACE TUNNEL (PRESSURE)	1.45	1.35	1.34	1.33	1.33	1.33	1.32	1.31	1.30	1.28
SURGE TANK	0.42	0.38	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.35
PENSTOCK	1.14	1.05	1.25	1.03	1.08	1.13	1.19	1.25	1.01	1.24
(PRESSURE SHAFT)	(0.56)	(0.55)	(0.59)	(0.55)	(0.56)	(0.57)	(0.56)	(0.60)	(0.54)	(0.59)
(STEEL LINER)	(0.58)	(0.50)	(0.66)	(0.48)	(0.52)	(0.56)	(0.61)	(0.66)	(0.47)	(0.65)
POWERHOUSE BUILDING	0.77	0.65	0.77	0.62	0.66	0.69	0.73	0.76	0.59	0.74
(SUPER STRUCTURE)	(0.34)	(0.29)	(0.34)	(0.28)	(0.29)	(0.31)	(0.32)	(0.34)	(0.26)	(0.33)
(SUB STRUCTURE)	(0.43)	(0.36)	(0.43)	(0.35)	(0.36)	(0.38)	(0.40)	(0.42)	(0.33)	(0.41)
MISCELLANEOUS CIVIL WORK	15.38	12.52	15.36	11.93	12.42	13.12	14.06	15.36	11.36	15.35
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	4.64	4.04	4.54	3.93	4.06	4.20	4.34	4.48	3.77	4.37
ENGINEERING/ADMINISTRATION	31.90	28.62	31.87	27.91	28.50	29.33	30.42	31.66	27.20	31.85
CONTINGENCIES	71.91	59.11	71.80	56.49	58.67	61.79	66.01	71.77	53.92	71.72
S U B T O T A L	431.45	354.68	430.78	338.94	352.04	370.75	396.04	430.60	323.50	430.30

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 52.0 KM)

TRANSMISSION LINE	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
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	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
CONTINGENCIES	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
S U B T O T A L	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90

T O T A L : 438.48 361.71 437.81 345.97 359.07 377.78 403.07 437.63 330.53 437.33

EVALUATION INDICES

U S D / K W	30811.1	31356.7	28825.6	31396.4	30157.5	29330.1	28952.1	29047.3	31816.0	29646.9
U S D / K W H	6.369	6.313	5.888	6.287	6.075	5.935	5.878	5.908	6.313	5.986

PROJECT NAME : UMIRAY-3
PROJECT ID : 3-023-00-01-0
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))	(153.7)	(80.0)	(110.4)	(144.2)	(64.7)	(98.2)	(135.1)	(46.0)	(79.3)	(115.6)
STORAGE DAM	208.92	88.86	133.94	208.92	67.32	118.75	208.92	47.32	102.20	208.92
SPILLWAY	16.69	11.91	14.02	16.69	10.65	13.36	16.69	9.21	12.59	16.69
DIVERSION TUNNEL	15.36	15.36	15.36	15.36	15.36	15.36	15.36	15.36	15.36	15.36
INTAKE (PRESSURE TYPE)	4.61	4.46	4.01	3.61	3.92	3.47	3.09	3.14	2.72	2.40
HEADRACE TUNNEL (PRESSURE)	11.54	10.65	10.62	10.57	10.02	9.90	9.92	8.87	8.83	8.75
SURGE TANK	3.60	3.24	3.21	3.18	2.98	2.95	2.92	2.52	2.50	2.46
PENSTOCK	12.52	8.26	10.01	12.03	7.40	9.30	11.49	6.23	8.10	10.25
(PRESSURE SHAFT)	(3.20)	(2.97)	(3.07)	(3.15)	(2.91)	(3.01)	(3.10)	(2.78)	(2.88)	(2.96)
(STEEL LINER)	(9.31)	(5.29)	(6.94)	(8.87)	(4.49)	(6.29)	(8.39)	(3.45)	(5.22)	(7.29)
POWERHOUSE BUILDING	10.81	6.74	8.34	9.95	5.69	7.50	9.25	4.28	6.14	7.86
(SUPER STRUCTURE)	(4.81)	(2.99)	(3.71)	(4.42)	(2.53)	(3.33)	(4.11)	(1.90)	(2.73)	(3.49)
(SUB STRUCTURE)	(6.01)	(3.74)	(4.63)	(5.53)	(3.16)	(4.17)	(5.14)	(2.38)	(3.41)	(4.37)
MISCELLANEOUS CIVIL WORK	14.20	7.47	9.98	14.01	6.17	9.03	13.68	4.85	7.92	13.63
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	35.41	25.09	28.95	32.56	21.96	26.43	30.39	17.44	22.21	26.18
ENGINEERING/ADMINISTRATION	32.21	22.75	26.96	31.86	18.93	25.59	31.60	14.90	23.57	31.11
CONTINGENCIES	73.17	40.96	53.08	71.75	34.08	48.35	70.70	26.82	42.43	58.72
S U B T O T A L	439.03	245.74	318.47	430.47	204.45	290.08	424.20	160.94	254.56	412.34

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 52.0 KM)

TRANSMISSION LINE	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77
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	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
CONTINGENCIES	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
S U B T O T A L	8.71	8.71	8.71	8.71	8.71	8.71	8.71	8.71	8.71	8.71

T O T A L	453.44	260.15	332.88	444.88	215.53	304.49	438.61	172.01	268.97	426.75
-----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

EVALUATION INDICES

U S D / K W	2949.8	3253.6	3016.4	3085.5	3330.6	3099.7	3245.8	3740.7	3393.2	3692.9
U S D / K W H	1.283	1.351	1.265	1.298	1.342	1.267	1.332	1.414	1.312	1.433

PROJECT NAME : UPPER UMIRAY
PROJECT ID : 3-023-00-02-0
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))	(215.3)	(174.5)	(193.7)	(216.1)	(169.0)	(190.1)	(215.8)	(163.5)	(186.4)	(215.1)
STORAGE DAM	170.28	146.15	154.11	170.28	140.78	150.14	170.28	135.64	145.99	170.28
SPILLWAY	20.35	18.97	19.44	20.35	18.65	19.20	20.35	18.33	18.96	20.35
DIVERSION TUNNEL	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84	10.84
INTAKE (PRESSURE TYPE)	5.24	6.12	5.54	4.97	5.99	5.34	4.72	5.86	5.15	4.48
HEADRACE TUNNEL (PRESSURE)	5.22	5.19	5.10	5.16	5.14	5.12	5.10	5.08	5.06	5.04
SURGE TANK	3.15	3.19	3.14	3.10	3.14	3.09	3.04	3.09	3.03	2.98
PENSTOCK	7.61	5.87	6.74	7.74	5.74	6.69	7.82	5.61	6.64	7.88
(PRESSURE SHAFT)	(1.57)	(1.39)	(1.49)	(1.59)	(1.38)	(1.50)	(1.60)	(1.38)	(1.50)	(1.62)
(STEEL LINER)	(6.04)	(4.48)	(5.25)	(6.15)	(4.36)	(5.20)	(6.22)	(4.23)	(5.14)	(6.27)
POWERHOUSE BUILDING	13.76	11.94	12.78	13.72	11.62	12.56	13.64	11.31	12.32	13.53
(SUPER STRUCTURE)	(6.12)	(5.30)	(5.68)	(6.10)	(5.16)	(5.58)	(6.06)	(5.03)	(5.48)	(6.01)
(SUB STRUCTURE)	(7.65)	(6.63)	(7.10)	(7.62)	(6.46)	(6.98)	(7.58)	(6.28)	(6.85)	(7.51)
MISCELLANEOUS CIVIL WORK	11.82	10.41	10.89	11.81	10.09	10.65	11.79	9.79	10.40	11.77
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	42.12	38.20	39.98	41.90	37.39	39.36	41.56	36.57	38.73	41.18
ENGINEERING/ADMINISTRATION	29.92	28.04	28.72	29.90	27.61	28.39	29.85	27.18	28.06	29.81
CONTINGENCIES	64.06	56.99	59.47	63.95	55.40	58.28	63.80	53.86	57.04	63.63
S U B T O T A L	384.37	341.91	356.83	383.72	332.37	349.67	382.78	323.16	342.21	381.76

ACCESS ROAD (ROAD LENGTH 38.5 KM)										
CONSTRUCTION COST	8.47	8.47	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 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	402.48	360.02	374.93	401.82	350.48	367.77	400.89	341.26	360.32	399.87

EVALUATION INDICES										
U S D / K W	1869.0	2062.9	1936.1	1859.4	2074.3	1934.2	1857.5	2087.4	1933.2	1859.3
U S D / K W H	1.235	1.354	1.273	1.224	1.354	1.266	1.217	1.355	1.259	1.213

PROJECT NAME : CATMON
PROJECT ID : 3-025-01-01-0
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))	(4.6)	(4.2)	(4.4)	(4.6)	(3.9)	(4.2)	(4.6)	(3.5)	(3.9)	(4.4)
STORAGE DAM	27.69	25.29	26.38	27.69	23.03	24.93	27.69	20.81	23.35	27.69
SPILLWAY	10.54	10.16	10.33	10.54	9.79	10.10	10.54	9.40	9.85	10.54
DIVERSION TUNNEL	5.85	5.85	5.85	5.85	5.85	5.85	5.85	5.85	5.85	5.85
INTAKE (PRESSURE TYPE)	0.44	0.41	0.40	0.38	0.39	0.36	0.33	0.36	0.32	0.29
HEADRACE TUNNEL (PRESSURE)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
SURGE TANK	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15
PENSTOCK	0.33	0.32	0.33	0.34	0.31	0.33	0.34	0.30	0.32	0.34
(PRESSURE SHAFT)	(0.20)	(0.20)	(0.20)	(0.21)	(0.20)	(0.20)	(0.21)	(0.19)	(0.20)	(0.21)
(STEEL LINER)	(0.12)	(0.12)	(0.12)	(0.13)	(0.11)	(0.12)	(0.13)	(0.11)	(0.12)	(0.13)
POWERHOUSE BUILDING	0.28	0.26	0.27	0.28	0.24	0.25	0.27	0.22	0.24	0.26
(SUPER STRUCTURE)	(0.12)	(0.12)	(0.12)	(0.12)	(0.11)	(0.11)	(0.12)	(0.10)	(0.11)	(0.11)
(SUB STRUCTURE)	(0.16)	(0.14)	(0.15)	(0.15)	(0.13)	(0.14)	(0.15)	(0.12)	(0.13)	(0.14)
MISCELLANEOUS CIVIL WORK	2.30	2.16	2.23	2.30	2.03	2.14	2.30	1.89	2.04	2.30
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	1.97	1.86	1.89	1.93	1.75	1.80	1.86	1.63	1.70	1.78
ENGINEERING/ADMINISTRATION	6.30	5.91	6.08	6.28	5.54	5.84	6.27	5.18	5.58	6.25
CONTINGENCIES	11.33	10.64	10.94	11.31	9.98	10.51	11.28	9.32	10.04	11.24
S U B T O T A L	67.99	63.83	65.66	67.84	59.86	63.07	67.67	55.90	60.23	67.47

ACCESS ROAD (ROAD LENGTH 33.0 KM)

CONSTRUCTION COST	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26
ENGINEERING ADMINISTRATION	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
CONTINGENCIES	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57
S U B T O T A L	9.41	9.41	9.41	9.41	9.41	9.41	9.41	9.41	9.41	9.41

TRANSMISSION LINE SYSTEM (T/L LENGTH 34.0 KM)

TRANSMISSION LINE	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
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	0.18	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	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36

T O T A L : 78.76 74.60 76.43 78.61 70.63 73.84 78.44 66.67 71.00 78.24

EVALUATION INDICES

U S D / K W	17069.1	17587.5	17239.3	16951.1	18157.9	17553.1	17211.4	18937.5	18074.5	17791.7
U S D / K W H	3.325	3.381	3.324	3.277	3.440	3.344	3.290	3.526	3.391	3.348

PROJECT NAME : BALINTINGON
PROJECT ID : 3-025-02-0
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))	(7.3)	(5.6)	(6.4)	(7.2)	(5.3)	(6.2)	(7.2)	(5.0)	(6.1)	(7.1)
STORAGE DAM	45.10	34.21	38.58	45.10	31.88	37.61	45.10	29.58	36.56	45.10
SPILLWAY	10.51	9.38	9.87	10.51	9.12	9.76	10.51	8.86	9.64	10.51
DIVERSION TUNNEL	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58	7.58
INTAKE (PRESSURE TYPE)	0.53	0.57	0.52	0.48	0.55	0.50	0.45	0.53	0.48	0.42
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	0.27	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25
PENSTOCK	0.44	0.39	0.42	0.45	0.38	0.42	0.45	0.38	0.41	0.45
(PRESSURE SHAFT)	(0.26)	(0.24)	(0.25)	(0.26)	(0.24)	(0.25)	(0.26)	(0.24)	(0.25)	(0.26)
(STEEL LINER)	(0.19)	(0.15)	(0.17)	(0.19)	(0.14)	(0.17)	(0.19)	(0.14)	(0.16)	(0.19)
POWERHOUSE BUILDING	0.43	0.36	0.39	0.42	0.34	0.38	0.42	0.33	0.37	0.41
(SUPER STRUCTURE)	(0.19)	(0.16)	(0.17)	(0.19)	(0.15)	(0.17)	(0.19)	(0.15)	(0.17)	(0.18)
(SUB STRUCTURE)	(0.24)	(0.20)	(0.22)	(0.24)	(0.19)	(0.21)	(0.23)	(0.18)	(0.21)	(0.23)
MISCELLANEOUS CIVIL WORK	3.29	2.69	2.93	3.29	2.55	2.87	3.29	2.42	2.81	3.28
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	2.88	2.53	2.68	2.82	2.45	2.63	2.79	2.37	2.57	2.75
ENGINEERING/ADMINISTRATION	9.00	7.37	8.02	8.98	7.01	7.87	8.97	6.66	7.71	8.96
CONTINGENCIES	16.20	13.26	14.44	16.17	12.62	14.17	16.15	11.98	13.87	16.14
S U B T O T A L	97.20	79.54	86.66	97.03	75.69	85.00	96.92	71.90	83.22	96.82

ACCESS ROAD (ROAD LENGTH 22.0 KM)										
CONSTRUCTION COST	4.84	4.84	4.84	4.84	4.84	4.84	4.84	4.84	4.84	4.84
ENGINEERING ADMINISTRATION	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
CONTINGENCIES	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
S U B T O T A L	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27

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	104.80	87.15	94.26	104.63	83.30	92.61	104.53	79.51	90.82	104.42

EVALUATION INDICES										
U S D / K W	14445.8	15886.9	14792.6	14500.4	15669.7	14845.2	14582.1	15752.6	14908.3	14661.0
U S D / K W H	2.987	3.168	3.026	2.977	3.168	3.024	2.977	3.168	3.024	2.984

PROJECT NAME : PAPAYA
PROJECT ID : 3-025-02-03-0
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))	(2.4) (2.2) (2.3) (2.4) (2.1) (2.2) (2.4) (1.9) (2.1) (2.3)									
STORAGE DAM	25.53	23.32	24.35	25.53	22.04	23.46	25.53	20.14	21.94	25.53
SPILLWAY	8.27	7.98	8.11	8.27	7.82	8.00	8.27	7.58	7.81	8.27
DIVERSION TUNNEL	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49
INTAKE (PRESSURE TYPE)	0.29	0.27	0.25	0.22	0.26	0.23	0.20	0.24	0.21	0.18
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	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09
PENSTOCK	0.46	0.45	0.46	0.47	0.44	0.46	0.47	0.43	0.45	0.47
(PRESSURE SHAFT)	(0.31) (0.30) (0.31) (0.31) (0.30) (0.30) (0.31) (0.30) (0.30) (0.31)									
(STEEL LINER)	(0.15) (0.15) (0.15) (0.16) (0.14) (0.15) (0.16) (0.14) (0.15) (0.16)									
POWERHOUSE BUILDING	0.15	0.14	0.15	0.15	0.14	0.14	0.15	0.13	0.14	0.14
(SUPER STRUCTURE)	(0.07) (0.06) (0.07) (0.07) (0.06) (0.06) (0.07) (0.06) (0.06) (0.06)									
(SUB STRUCTURE)	(0.09) (0.08) (0.08) (0.08) (0.08) (0.08) (0.08) (0.08) (0.07) (0.08)									
MISCELLANEOUS CIVIL WORK	1.99	1.87	1.92	1.59	1.79	1.87	1.99	1.68	1.79	1.99
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	1.19	1.12	1.14	1.16	1.08	1.11	1.14	1.03	1.07	1.10
ENGINEERING/ADMINISTRATION	5.38	5.04	5.19	5.37	4.84	5.05	5.36	4.55	4.82	5.35
CONTINGENCIES	9.68	9.07	9.35	9.66	8.72	9.10	9.65	8.19	8.67	9.64
S U B T O T A L	58.11	54.43	56.10	57.98	52.30	54.59	57.91	49.14	52.05	57.81

ACCESS ROAD (ROAD LENGTH 22.0 KM)

CONSTRUCTION COST	4.84	4.84	4.84	4.84	4.84	4.84	4.84	4.84	4.84	4.84
ENGINEERING ADMINISTRATION	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
CONTINGENCIES	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
S U B T O T A L	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27

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	65.80	62.12	63.79	65.68	59.99	62.28	65.61	56.83	59.74	65.50
-----------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

EVALUATION INDICES

U S D / K W	27350.0	28681.7	27796.4	27209.8	29056.7	27906.9	27365.8	25642.4	28190.6	27987.0
U S D / K W H	5.813	5.913	5.742	5.622	5.952	5.733	5.619	6.011	5.740	5.689

PROJECT NAME : LUBINGAN
PROJECT ID : 3-025-03-04-0
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))	(20.1)	(8.8)	(11.9)	(16.0)	(6.9)	(10.2)	(14.2)	(3.6)	(6.1)	(8.8)
STORAGE DAM	254.60	88.86	140.23	254.60	65.37	123.46	254.60	39.42	107.24	254.60
SPILLWAY	22.53	14.82	17.74	22.53	13.11	16.86	22.53	10.74	15.96	22.53
DIVERSION TUNNEL	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97
INTAKE (PRESSURE TYPE)	0.76	0.54	0.41	0.35	0.43	0.31	0.26	0.23	0.15	0.13
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	0.29	0.21	0.21	0.21	0.19	0.18	0.18	0.12	0.12	0.11
PENSTOCK	0.88	0.53	0.68	0.87	0.49	0.64	0.83	0.39	0.51	0.66
(PRESSURE SHAFT)	(0.36)	(0.29)	(0.33)	(0.37)	(0.28)	(0.32)	(0.36)	(0.24)	(0.28)	(0.32)
(STEEL LINER)	(0.52)	(0.25)	(0.35)	(0.50)	(0.21)	(0.32)	(0.46)	(0.15)	(0.23)	(0.34)
POWERHOUSE BUILDING	0.86	0.45	0.55	0.66	0.37	0.47	0.58	0.20	0.28	0.36
(SUPER STRUCTURE)	(0.38)	(0.20)	(0.24)	(0.29)	(0.16)	(0.21)	(0.26)	(0.09)	(0.13)	(0.16)
(SUB STRUCTURE)	(0.48)	(0.25)	(0.30)	(0.37)	(0.20)	(0.26)	(0.32)	(0.11)	(0.16)	(0.20)
MISCELLANEOUS CIVIL WORK	14.55	5.82	8.54	14.51	4.55	7.65	14.50	3.11	6.76	14.47
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	4.67	2.79	3.18	3.61	2.36	2.79	3.22	1.43	1.78	2.07
ENGINEERING/ADMINISTRATION	30.98	15.63	22.82	30.89	12.24	20.42	30.86	8.33	17.98	30.76
CONTINGENCIES	68.23	28.13	41.08	67.85	22.02	36.76	67.71	15.00	32.36	67.34
S U B T O T A L	409.36	168.80	246.46	407.09	132.14	220.56	406.23	89.98	194.17	404.04

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 58.0 KM)

TRANSMISSION LINE	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33
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	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
CONTINGENCIES	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
S U B T O T A L	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08

T O T A L	413.15	172.59	250.24	410.87	135.93	224.35	410.07	93.76	197.95	407.83
-----------	--------	--------	--------	--------	--------	--------	--------	-------	--------	--------

EVALUATION INDICES

U S D / K W	20575.8	19592.5	20563.2	25692.9	19605.1	22066.3	28909.9	25792.3	32494.8	46443.5
U S D / K W H	4.241	3.656	3.978	4.893	3.521	4.037	5.294	4.530	5.707	8.158

PROJECT NAME : GUMAIN
PROJECT ID : 3-027-00-01-0
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))	(2.2)	(1.9)	(2.0)	(2.1)	(1.7)	(1.9)	(2.1)	(1.6)	(1.8)	(2.0)
STORAGE DAM	39.51	33.64	36.59	39.51	30.10	34.24	39.51	26.75	32.02	39.51
SPILLWAY	9.43	8.81	9.12	9.43	8.42	8.87	9.43	8.01	8.64	9.43
DIVERSION TUNNEL	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28	5.28
INTAKE (PRESSURE TYPE)	0.22	0.20	0.19	0.19	0.18	0.17	0.17	0.17	0.16	0.15
HEADRACE TUNNEL (PRESSURE)	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
SURGE TANK	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07
PENSTOCK	0.31	0.30	0.31	0.32	0.30	0.31	0.32	0.29	0.31	0.32
(PRESSURE SHAFT)	(0.21)	(0.20)	(0.21)	(0.21)	(0.20)	(0.20)	(0.21)	(0.20)	(0.20)	(0.21)
(STEEL LINER)	(0.11)	(0.10)	(0.11)	(0.11)	(0.10)	(0.11)	(0.11)	(0.10)	(0.10)	(0.11)
POWERHOUSE BUILDING	0.13	0.12	0.12	0.13	0.11	0.12	0.12	0.10	0.11	0.12
(SUPER STRUCTURE)	(0.06)	(0.05)	(0.05)	(0.06)	(0.05)	(0.05)	(0.05)	(0.04)	(0.05)	(0.05)
(SUB STRUCTURE)	(0.07)	(0.06)	(0.07)	(0.07)	(0.06)	(0.06)	(0.07)	(0.05)	(0.06)	(0.07)
MISCELLANEOUS CIVIL WORK	2.79	2.46	2.62	2.79	2.26	2.49	2.78	2.07	2.37	2.78
CONSTRUCTION FACILITIES	0.99	0.90	0.93	0.95	0.86	0.89	0.92	0.80	0.84	0.89
POWER EQUIPMENT	7.44	6.57	7.00	7.43	6.05	6.65	7.42	5.54	6.32	7.42
ENGINEERING/ADMINISTRATION	13.39	11.83	12.60	13.38	10.88	11.98	13.35	9.97	11.38	13.35
CONTINGENCIES	80.35	70.93	75.63	80.25	65.20	71.87	80.18	59.84	68.28	80.10
S U B T O T A L										

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 21.0 KM)

TRANSMISSION LINE	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
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	0.13	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	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97

T O T A L	83.04	73.67	78.31	82.94	67.98	74.55	82.87	62.52	70.97	82.78
-----------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

EVALUATION INDICES

U S D / K W	38511.0	38831.9	38971.0	39041.7	39067.3	39181.4	39760.2	39698.3	39757.8	40942.2
U S D / K W H	8.028	7.991	8.019	8.043	7.954	7.994	8.122	7.985	8.019	8.269

PROJECT NAME : PILA
PROJECT ID : 3-077-00-02-0
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))	(5.8)	(4.7)	(5.2)	(5.8)	(4.4)	(5.0)	(5.6)	(4.1)	(4.7)	(5.4)
STORAGE DAM	147.22	121.01	131.82	147.22	115.78	127.67	147.22	109.42	123.51	147.22
SPILLWAY	11.03	10.10	10.49	11.03	9.90	10.35	11.03	9.65	10.20	11.03
DIVERSION TUNNEL	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87	5.87
INTAKE (PRESSURE TYPE)	0.39	0.44	0.40	0.36	0.42	0.38	0.33	0.40	0.35	0.31
HEADRACE TUNNEL (PRESSURE)	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
SURGE TANK	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.14
PENSTOCK	0.79	0.72	0.75	0.79	0.70	0.74	0.78	0.69	0.73	0.77
(PRESSURE SHAFT)	(0.46)	(0.44)	(0.45)	(0.46)	(0.43)	(0.45)	(0.45)	(0.43)	(0.44)	(0.46)
(STEEL LINER)	(0.33)	(0.28)	(0.30)	(0.33)	(0.27)	(0.29)	(0.32)	(0.26)	(0.29)	(0.32)
POWERHOUSE BUILDING	0.32	0.27	0.29	0.31	0.26	0.28	0.30	0.24	0.27	0.29
(SUPER STRUCTURE)	(0.14)	(0.12)	(0.13)	(0.14)	(0.12)	(0.12)	(0.14)	(0.11)	(0.12)	(0.13)
(SUB STRUCTURE)	(0.18)	(0.15)	(0.16)	(0.17)	(0.14)	(0.16)	(0.17)	(0.14)	(0.15)	(0.16)
MISCELLANEOUS CIVIL WORK	8.33	6.97	7.53	8.33	6.69	7.31	8.32	6.36	7.09	8.32
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	2.12	1.90	1.99	2.08	1.82	1.92	2.02	1.73	1.83	1.94
ENGINEERING/ADMINISTRATION	22.12	18.53	20.01	22.11	17.80	19.43	22.10	16.91	18.84	22.08
CONTINGENCIES	39.82	33.35	36.02	39.80	32.03	34.97	39.78	30.44	33.92	39.75
S U B T O T A L	238.94	200.09	216.09	238.82	192.19	209.83	238.67	182.62	203.52	238.50

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 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	243.39	204.54	220.54	243.27	196.84	214.28	243.12	187.07	207.97	242.95
-----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

EVALUATION INDICES

U S D / K W	41604.6	43637.7	42370.0	42116.3	44587.2	43059.3	43219.7	45506.1	43956.4	44614.9
U S D / K W H	8.847	9.168	8.936	8.902	9.272	8.998	9.056	9.354	9.091	9.254

PROJECT NAME : SAN NICOLAS
PROJECT ID : 3-077-00-03-0
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
	(21.7)	(14.4)	(17.3)	(20.8)	(13.2)	(16.4)	(20.1)	(12.1)	(15.4)	(19.3)
POWER DEVELOPMENT (INST. CAP (MW))										
STORAGE DAM	187.36	117.00	143.03	187.36	107.85	137.17	187.36	98.40	130.40	187.36
SPILLWAY	18.72	15.40	16.74	18.72	14.88	16.45	18.72	14.34	15.11	18.72
DIVERSION TUNNEL	11.81	11.81	11.81	11.81	11.81	11.81	11.81	11.81	11.81	11.81
INTAKE (PRESSURE TYPE)	0.91	0.99	0.88	0.79	0.93	0.82	0.73	0.87	0.75	0.67
HEADRACE TUNNEL (PRESSURE)	1.52	1.45	1.45	1.44	1.41	1.40	1.40	1.36	1.36	1.35
SURGE TANK	0.47	0.45	0.44	0.44	0.43	0.43	0.42	0.41	0.41	0.40
PENSTOCK	1.77	1.40	1.56	1.74	1.35	1.52	1.71	1.30	1.48	1.58
(PRESSURE SHAFT)	(0.75)	(0.69)	(0.72)	(0.75)	(0.69)	(0.71)	(0.74)	(0.68)	(0.71)	(0.73)
(STEEL LINER)	(1.02)	(0.71)	(0.84)	(0.99)	(0.67)	(0.81)	(0.97)	(0.63)	(0.77)	(0.95)
POWERHOUSE BUILDING	1.07	0.80	0.90	1.02	0.74	0.85	0.93	0.69	0.81	0.94
(SUPER STRUCTURE)	(0.48)	(0.35)	(0.40)	(0.45)	(0.33)	(0.38)	(0.43)	(0.31)	(0.36)	(0.42)
(SUB STRUCTURE)	(0.59)	(0.44)	(0.50)	(0.56)	(0.41)	(0.47)	(0.54)	(0.38)	(0.45)	(0.52)
MISCELLANEOUS CIVIL WORK	11.18	7.46	8.84	11.17	6.97	8.52	11.16	6.46	8.16	11.15
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	6.01	4.86	5.27	5.71	4.59	5.04	5.51	4.32	4.80	5.30
ENGINEERING/ADMINISTRATION	27.10	20.20	23.86	27.06	18.87	23.00	27.04	17.50	22.01	27.01
CONTINGENCIES	53.58	36.36	42.96	53.45	33.97	41.40	53.36	31.50	39.62	53.28
S U B T O T A L	321.50	218.18	257.74	320.70	203.79	248.42	320.19	188.97	237.71	319.66

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 25.0 KM)

TRANSMISSION LINE	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
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	0.14	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	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09

T O T A L	323.17	219.84	259.40	322.36	205.46	250.08	321.85	190.63	239.37	321.32
-----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

EVALUATION INDICES

U S D / K W	14902.8	15306.2	15009.5	15524.2	15524.1	15282.0	16027.3	15700.2	15531.8	16607.2
U S D / K W H	3.164	3.169	3.129	3.248	3.177	3.153	3.321	3.173	3.170	3.404

PROJECT NAME : TABU
PROJECT ID : 3-077-00-04-0
TYPE : RESERVOIR

(UNIT : MILLION USD)

* SUMMARY TABLE OF COST ESTIMATE *

I T E M	C A S E					
	1	2	3	4	5	6
POWER DEVELOPMENT (INST.CAP.(KW))	(67.4)	(36.9)	(38.7)	(40.4)	(42.3)	(44.1)
STORAGE DAM	32.55	21.28	23.81	26.40	29.49	32.55
SPILLWAY	19.73	16.77	17.51	18.21	18.99	19.73
DIVERSION TUNNEL	18.01	18.01	18.01	18.01	18.01	18.01
INTAKE (PRESSURE TYPE)	2.04	0.99	0.97	0.95	0.94	0.92
HEADRACE TUNNEL (PRESSURE)	13.98	9.96	9.94	9.92	9.91	9.89
SURGE TANK	2.11	1.34	1.33	1.33	1.33	1.32
PENSTOCK	2.23	1.50	1.56	1.61	1.66	1.72
(PRESSURE SHAFT)	(0.62)	(0.54)	(0.55)	(0.56)	(0.56)	(0.57)
(STEEL LINER)	(1.62)	(0.96)	(1.01)	(1.05)	(1.10)	(1.15)
POWERHOUSE BUILDING	3.44	1.97	2.03	2.09	2.15	2.21
(SUPER STRUCTURE)	(1.53)	(0.87)	(0.90)	(0.93)	(0.95)	(0.98)
(SUB STRUCTURE)	(1.91)	(1.09)	(1.13)	(1.16)	(1.19)	(1.23)
MISCELLANEOUS CIVIL WORK	4.70	3.59	3.76	3.93	4.12	4.32
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	17.44	10.75	10.97	11.18	11.39	11.60
ENGINEERING/ADMINISTRATION	14.53	10.77	11.24	11.70	12.25	12.78
CONTINGENCIES	26.15	19.39	20.23	21.06	22.05	23.01
S U B T O T A L	156.93	116.32	121.35	126.39	132.29	138.07

ACCESS ROAD (ROAD LENGTH 6.0 KM)

CONSTRUCTION COST	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
CONTINGENCIES	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

TRANSMISSION LINE SYSTEM (T/L LENGTH 27.0 KM)

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

T O T A L

EVALUATION INDICES

U S D / K W	2402.4	3258.7	3238.8	3248.0	3244.9	3245.0
U S D / K W H	0.762	1.117	1.111	1.116	1.114	1.115

PROJECT NAME : AGNO-1
PROJECT ID : 3-077-00-05-0
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))	(0.7)	(1.7)	(2.9)	(4.6)	(7.3)	(8.9)
DIVERSION DAM/WEIR	0.38	0.44	0.49	0.54	0.62	0.66
INTAKE (NON-PRESSURE TYPE)	0.11	0.20	0.28	0.39	0.54	0.61
HEADRACE TUNNEL (NON-PRES.)	1.51	1.55	1.97	2.59	3.40	3.81
HEAD TANK	0.10	0.17	0.24	0.31	0.41	0.46
PENSTOCK	0.33	0.37	0.44	0.53	0.65	0.72
(PRESSURE SHAFT)	(0.24)	(0.26)	(0.30)	(0.34)	(0.39)	(0.41)
(STEEL LINER)	(0.09)	(0.12)	(0.15)	(0.19)	(0.26)	(0.31)
POWERHOUSE BUILDING	0.05	0.16	0.27	0.53	1.08	1.45
(SUPER STRUCTURE)	(0.02)	(0.07)	(0.12)	(0.23)	(0.48)	(0.64)
(SUB STRUCTURE)	(0.03)	(0.09)	(0.15)	(0.29)	(0.60)	(0.80)
MISCELLANEOUS CIVIL WORK	0.12	0.15	0.18	0.24	0.33	0.39
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	0.40	0.93	1.46	2.22	3.37	4.01
ENGINEERING/ADMINISTRATION	0.37	0.50	0.67	0.92	1.30	1.51
CONTINGENCIES	0.67	0.90	1.20	1.66	2.34	2.72
S U B T O T A L	4.04	5.39	7.20	9.93	14.04	16.35

ACCESS ROAD (ROAD LENGTH 9.0 KM)

CONSTRUCTION COST	1.98	1.98	1.98	1.98	1.98	1.98
ENGINEERING ADMINISTRATION	0.16	0.16	0.16	0.16	0.16	0.16
CONTINGENCIES	0.43	0.43	0.43	0.43	0.43	0.43
S U B T O T A L	2.57	2.57	2.57	2.57	2.57	2.57

TRANSMISSION LINE SYSTEM (T/L LENGTH 26.0 KM)

TRANSMISSION LINE	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
ENGINEERING/ADMINISTRATION	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
S U B T O T A L	1.12	1.12	1.12	1.12	1.12	1.12

T O T A L	7.73	9.08	10.89	13.62	17.73	20.04
-----------	------	------	-------	-------	-------	-------

EVALUATION INDICES

U S D / K W	11150.2	5248.2	3813.5	2965.8	2417.3	2239.3
U S D / K W H	1.827	1.472	1.373	1.336	1.358	1.387

PROJECT NAME : AGNO-2
PROJECT ID : 3-077-00-06-0
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))	(1.6)	(4.1)	(5.6)	(10.5)	(16.7)	(20.3)
DIVERSION DAM/WEIR	0.34	0.39	0.42	0.47	0.53	0.56
INTAKE (NON-PRESSURE TYPE)	0.10	0.17	0.24	0.32	0.44	0.51
HEADRACE TUNNEL (NON-PRES.)	5.20	5.20	5.97	7.60	9.99	11.21
HEAD TANK	0.08	0.15	0.20	0.26	0.35	0.39
PENSTOCK	0.88	1.00	1.19	1.48	1.90	2.13
(PRESSURE SHAFT)	(0.58)	(0.58)	(0.64)	(0.74)	(0.85)	(0.90)
(STEEL LINER)	(0.30)	(0.42)	(0.55)	(0.75)	(1.05)	(1.23)
POWERHOUSE BUILDING	0.07	0.27	0.43	0.84	1.71	2.28
(SUPER STRUCTURE)	(0.03)	(0.12)	(0.19)	(0.37)	(0.76)	(1.01)
(SUB STRUCTURE)	(0.04)	(0.15)	(0.24)	(0.47)	(0.95)	(1.27)
MISCELLANEOUS CIVIL WORK	0.33	0.36	0.42	0.55	0.75	0.85
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	0.52	1.23	1.88	2.86	4.31	5.13
ENGINEERING/ADMINISTRATION	0.94	1.10	1.34	1.80	2.50	2.88
CONTINGENCIES	1.69	1.97	2.42	3.24	4.50	5.19
S U B T O T A L	10.17	11.84	14.52	19.42	26.97	31.13

ACCESS ROAD (ROAD LENGTH 4.3 KM)

CONSTRUCTION COST	0.95	0.95	0.95	0.95	0.95	0.95
ENGINEERING ADMINISTRATION	0.00	0.08	0.08	0.08	0.08	0.08
CONTINGENCIES	0.20	0.20	0.20	0.20	0.20	0.20
S U B T O T A L	1.23	1.23	1.23	1.23	1.23	1.23

TRANSMISSION LINE SYSTEM (T/L LENGTH 27.6 KM)

TRANSMISSION LINE	0.63	0.63	0.63	0.63	0.63	0.63
SWITCHYARD AND SUBSTATION	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
CONTINGENCIES	0.15	0.15	0.15	0.15	0.15	0.15
S U B T O T A L	1.17	1.17	1.17	1.17	1.17	1.17

T O T A L : 12.56 14.23 16.91 21.82 29.37 33.53

EVALUATION INDICES

U S D / K W	7614.5	3430.7	2568.2	2070.9	1760.2	1654.2
U S D / K W H	1.249	0.965	0.928	0.937	0.993	1.029

PROJECT NAME : AGNO-3
PROJECT ID : 3-077-00-07-Q
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))	(1.5 ) (	3.8 ) (	5.9 ) (	9.3 ) (	14.8 ) (	18.0)
DIVERSION DAM/WEIR	0.61	0.67	0.71	0.75	0.82	0.85
INTAKE (NON-PRESSURE TYPE)	0.08	0.14	0.19	0.26	0.35	0.40
HEADRACE TUNNEL (NON-PRES.)	4.74	4.74	4.74	5.78	7.47	8.38
HEAD TANK	0.07	0.12	0.16	0.22	0.29	0.32
PENSTOCK	0.81	0.92	1.01	1.24	1.52	1.76
(PRESSURE SHAFT)	(0.54 ) (	0.54 ) (	0.54 ) (	0.61 ) (	0.70 ) (	0.74)
(STEEL LINER)	(0.27 ) (	0.38 ) (	0.48 ) (	0.63 ) (	0.88 ) (	1.02)
POWERHOUSE BUILDING	0.06	0.23	0.36	0.69	1.42	1.89
(SUPER STRUCTURE)	(0.03 ) (	0.10 ) (	0.16 ) (	0.31 ) (	0.63 ) (	0.84)
(SUB STRUCTURE)	(0.03 ) (	0.13 ) (	0.20 ) (	0.39 ) (	0.79 ) (	1.05)
MISCELLANEOUS CIVIL WORK	0.32	0.34	0.36	0.45	0.60	0.68
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	0.42	1.01	1.55	2.33	3.52	4.19
ENGINEERING/ADMINISTRATION	0.89	1.02	1.14	1.46	2.01	2.31
CONTINGENCIES	1.60	1.84	2.04	2.64	3.61	4.16
S U B T O T A L	9.62	11.03	12.26	15.82	21.65	24.95

ACCESS ROAD (ROAD LENGTH 0. KM)

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

TRANSMISSION LINE SYSTEM (T/L LENGTH 32.0 KM)

TRANSMISSION LINE	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
ENGINEERING/ADMINISTRATION	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
S U B T O T A L	1.30	1.30	1.30	1.30	1.30	1.30

T O T A L	10.92	12.33	13.56	17.12	22.96	26.25
-----------	-------	-------	-------	-------	-------	-------

EVALUATION INDICES

U S D / K W	7516.7	3261.6	2239.6	1836.9	1546.9	1456.7
U S D / K W H	1.232	0.916	0.826	0.829	0.871	0.904

PROJECT NAME : CAMILING-1
PROJECT ID : 3-077-01-08-0
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))	(9.9)	(7.9)	(8.8)	(9.8)	(7.4)	(8.5)	(9.6)	(6.9)	(8.1)	(9.3)
STORAGE DAM	183.58	147.54	161.34	183.58	138.75	156.87	183.58	130.00	151.91	183.58
SPILLWAY	13.53	12.38	12.86	13.53	12.08	12.70	13.53	11.78	12.53	13.53
DIVERSION TUNNEL	10.72	10.72	10.72	10.72	10.72	10.72	10.72	10.72	10.72	10.72
INTAKE (PRESSURE TYPE)	0.63	0.69	0.64	0.59	0.66	0.60	0.54	0.62	0.56	0.50
HEADRACE TUNNEL (PRESSURE)	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
SURGE TANK	0.32	0.32	0.32	0.31	0.31	0.30	0.30	0.29	0.29	0.29
PENSTOCK	2.01	1.85	1.92	2.00	1.81	1.89	1.98	1.76	1.85	1.95
(PRESSURE SHAFT)	(1.09)	(1.06)	(1.07)	(1.08)	(1.05)	(1.06)	(1.07)	(1.04)	(1.05)	(1.06)
(STEEL LINER)	(0.93)	(0.79)	(0.85)	(0.92)	(0.76)	(0.83)	(0.91)	(0.73)	(0.80)	(0.89)
POWERHOUSE BUILDING	0.55	0.47	0.51	0.54	0.45	0.49	0.53	0.42	0.46	0.51
(SUPER STRUCTURE)	(0.25)	(0.21)	(0.23)	(0.24)	(0.20)	(0.22)	(0.23)	(0.19)	(0.21)	(0.23)
(SUB STRUCTURE)	(0.31)	(0.26)	(0.28)	(0.30)	(0.25)	(0.27)	(0.29)	(0.23)	(0.26)	(0.28)
MISCELLANEOUS CIVIL WORK	10.63	8.76	9.48	10.63	8.30	9.24	10.62	7.84	8.98	10.62
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	3.50	3.14	3.28	3.44	2.99	3.17	3.34	2.84	3.04	3.23
ENGINEERING/ADMINISTRATION	26.25	23.39	24.71	26.24	22.16	24.38	26.23	20.94	23.95	26.22
CONTINGENCIES	50.60	42.10	45.40	50.57	39.89	44.32	50.52	37.70	43.11	50.48
S U B T O T A L	303.57	252.61	272.43	303.40	239.36	265.92	303.14	226.18	258.64	302.86

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 25.0 KM)

TRANSMISSION LINE	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
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	0.14	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	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09

T O T A L : 306.37 255.42 275.23 306.20 242.17 268.73 305.95 228.98 261.44 305.66

EVALUATION INDICES

U S D / K W	30898.7	32208.3	31215.1	31178.6	32566.5	31732.1	31838.5	33007.9	32385.0	32767.1
U S D / K W H	6.564	6.753	6.576	6.584	6.764	6.624	6.665	6.775	6.590	6.790

PROJECT NAME : CAMILING-2
PROJECT ID : 3-077-01-09-0
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
	(8.1)	(6.6)	(7.2)	(8.0)	(6.2)	(6.9)	(7.8)	(5.8)	(5.6)	(7.5)
POWER DEVELOPMENT (INST. CAP (KW))	67.00	53.26	59.03	67.00	50.49	56.97	67.00	47.39	54.95	67.00
STORAGE DAM	12.59	11.50	11.96	12.59	11.25	11.80	12.59	10.97	11.65	12.59
SPILLWAY	6.77	6.77	6.77	6.77	6.77	6.77	6.77	6.77	6.77	6.77
DIVERSION TUNNEL	0.50	0.55	0.51	0.47	0.52	0.48	0.44	0.49	0.45	0.40
INTAKE (PRESSURE TYPE)	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
HEADRACE TUNNEL (PRESSURE)	0.22	0.22	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.19
SURGE TANK	1.20	1.11	1.15	1.20	1.09	1.13	1.19	1.06	1.11	1.17
PENSTOCK	(0.57)	(0.65)	(0.66)	(0.67)	(0.65)	(0.66)	(0.67)	(0.64)	(0.65)	(0.66)
(PRESSURE SHAFT)	(0.53)	(0.48)	(0.49)	(0.53)	(0.44)	(0.48)	(0.52)	(0.42)	(0.46)	(0.51)
(STEEL LINER)	0.44	0.39	0.41	0.44	0.36	0.39	0.42	0.34	0.37	0.41
POWERHOUSE BUILDING	(0.20)	(0.17)	(0.18)	(0.19)	(0.16)	(0.17)	(0.19)	(0.15)	(0.17)	(0.18)
(SUPER STRUCTURE)	(0.25)	(0.21)	(0.23)	(0.24)	(0.20)	(0.22)	(0.23)	(0.19)	(0.21)	(0.23)
(SUB STRUCTURE)	4.47	3.72	4.03	4.47	3.57	3.92	4.46	3.39	3.81	4.46
MISCELLANEOUS CIVIL WORK	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CONSTRUCTION FACILITIES	2.85	2.59	2.69	2.81	2.47	2.59	2.72	2.35	2.48	2.63
POWER EQUIPMENT	12.09	10.09	10.93	12.07	9.67	10.61	12.05	9.20	10.30	12.03
ENGINEERING/ADMINISTRATION	21.76	18.17	19.67	21.73	17.41	19.10	21.70	16.56	18.54	21.66
CONTINGENCIES	130.56	108.99	118.01	130.41	104.45	114.62	130.19	99.36	111.26	129.96
S U B T O T A L										

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 29.0 KM)

TRANSMISSION LINE	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
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	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
CONTINGENCIES	0.16	0.16	0.16	0.16	0.16	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	1.21	1.21	1.21	1.21	1.21

T O T A L	135.19	113.63	122.64	135.04	109.08	119.25	134.83	103.99	115.89	134.59
-----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

EVALUATION INDICES

U S D / K W	16717.7	17237.6	16940.5	16930.2	17610.8	17232.2	17359.6	18005.8	17605.3	17900.0
U S D / K W H	3.554	3.625	3.573	3.577	3.667	3.601	3.636	3.707	3.641	3.711

PROJECT NAME : PAMPANG
PROJECT ID : 3-077-04-10-0
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))	(1.0)	(2.6)	(4.1)	(6.3)	(10.0)	(12.3)
DIVERSION DAM/WEIR	0.31	0.34	0.37	0.40	0.44	0.46
INTAKE (NON-PRESSURE TYPE)	0.08	0.13	0.17	0.23	0.32	0.36
HEADRACE TUNNEL (NON-PRES.)	3.31	3.31	3.31	3.74	4.65	5.31
HEAD TANK	0.06	0.11	0.15	0.20	0.26	0.29
PENSTOCK	0.53	0.58	0.62	0.73	0.90	1.00
(PRESSURE SHAFT)	(0.36)	(0.36)	(0.36)	(0.40)	(0.46)	(0.48)
(STEEL LINER)	(0.17)	(0.22)	(0.26)	(0.33)	(0.45)	(0.52)
POWERHOUSE BUILDING	0.04	0.17	0.27	0.51	1.04	1.38
(SUPER STRUCTURE)	(0.02)	(0.07)	(0.12)	(0.23)	(0.46)	(0.62)
(SUB STRUCTURE)	(0.02)	(0.09)	(0.15)	(0.28)	(0.58)	(0.77)
MISCELLANEOUS CIVIL WORK	0.22	0.23	0.24	0.29	0.38	0.44
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	0.33	0.79	1.22	1.82	2.75	3.28
ENGINEERING/ADMINISTRATION	0.61	0.71	0.79	0.99	1.34	1.57
CONTINGENCIES	1.10	1.27	1.43	1.78	2.42	2.82
S U B T O T A L	6.58	7.64	8.57	10.69	14.50	16.93

ACCESS ROAD (ROAD LENGTH 22.0 KM)

CONSTRUCTION COST	4.84	4.84	4.84	4.84	4.84	4.84
ENGINEERING ADMINISTRATION	0.39	0.39	0.39	0.39	0.39	0.39
CONTINGENCIES	1.05	1.05	1.05	1.05	1.05	1.05
S U B T O T A L	6.27	6.27	6.27	6.27	6.27	6.27

TRANSMISSION LINE SYSTEM (T/L LENGTH 35.0 KM)

TRANSMISSION LINE	0.80	0.80	0.80	0.80	0.80	0.80
SWITCHYARD AND SUBSTATION	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
CONTINGENCIES	0.18	0.18	0.18	0.18	0.18	0.18
S U B T O T A L	1.39	1.39	1.39	1.39	1.39	1.39

T O T A L	14.24	15.30	16.24	18.35	22.16	24.59
-----------	-------	-------	-------	-------	-------	-------

EVALUATION INDICES

U S D / K W	14562.5	5960.7	3971.2	2893.3	2208.9	2007.0
U S D / K W H	2.388	1.677	1.436	1.309	1.246	1.249

PROJECT NAME : KANAN
PROJECT ID : 4-007-00-01-0
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))	(193.7)	(182.9)	(195.9)	(211.3)	(174.5)	(192.0)	(213.9)	(163.3)	(185.2)	(211.8)
STORAGE DAM	218.22	199.48	205.15	218.22	185.20	194.22	218.22	168.28	183.15	218.22
SPILLWAY	24.68	23.87	24.11	24.68	23.25	23.64	24.68	22.44	23.16	24.68
DIVERSION TUNNEL	20.12	20.12	20.12	20.12	20.12	20.12	20.12	20.12	20.12	20.12
INTAKE (PRESSURE TYPE)	6.20	6.04	5.59	5.14	5.85	5.25	4.66	5.59	4.90	4.21
HEADRACE TUNNEL (PRESSURE)	8.63	8.51	8.50	8.48	8.39	8.37	8.34	8.20	8.18	8.13
SURGE TANK	3.47	3.41	3.38	3.35	3.34	3.30	3.26	3.23	3.19	3.14
PENSTOCK	6.93	6.63	7.30	8.06	6.42	7.30	8.35	6.12	7.18	8.45
(PRESSURE SHAFT)	(1.52)	(1.51)	(1.59)	(1.67)	(1.50)	(1.61)	(1.71)	(1.49)	(1.61)	(1.73)
(STEEL LINER)	(5.41)	(5.12)	(5.71)	(6.39)	(4.91)	(5.69)	(6.65)	(4.63)	(5.57)	(6.72)
POWERHOUSE BUILDING	12.68	12.13	12.69	13.34	11.68	12.43	13.34	11.05	12.00	13.10
(SUPER STRUCTURE)	(5.64)	(5.39)	(5.64)	(5.93)	(5.19)	(5.53)	(5.93)	(4.91)	(5.34)	(5.82)
(SUB STRUCTURE)	(7.04)	(6.74)	(7.05)	(7.41)	(6.49)	(6.91)	(7.41)	(6.14)	(6.67)	(7.28)
MISCELLANEOUS CIVIL WORK	15.05	14.01	14.34	15.07	13.21	13.73	15.05	12.25	13.09	15.00
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	39.56	38.23	39.40	40.72	37.08	38.67	40.51	35.49	37.49	39.69
ENGINEERING/ADMINISTRATION	33.31	32.14	32.56	33.39	31.22	31.87	33.36	30.05	31.11	33.27
CONTINGENCIES	77.77	72.92	74.63	78.11	69.15	71.78	77.98	64.56	68.71	77.60
S U B T O T A L	466.62	437.49	447.77	468.59	414.92	430.66	467.87	387.39	412.29	455.62

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 18.6 KM)

TRANSMISSION LINE	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
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	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
CONTINGENCIES	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
S U B T O T A L	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91

T O T A L : 474.53 445.40 455.68 476.59 422.82 438.57 475.77 395.29 420.19 473.52

EVALUATION INDICES

U S D / K W	2450.1	2435.8	2325.7	2255.6	2422.4	2283.9	2224.7	2421.2	2269.3	2236.1
U S D / K W H	0.820	0.811	0.775	0.762	0.802	0.757	0.738	0.794	0.747	0.735

PROJECT NAME : DARAITAN
PROJECT ID : 4-007-00-02-0
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))	(61.2)	(53.7)	(57.2)	(61.0)	(49.6)	(54.4)	(59.8)	(44.1)	(49.8)	(56.6)
STORAGE DAM	29.43	25.69	27.35	29.43	23.18	25.87	29.43	21.03	24.15	29.43
SPILLWAY	12.37	11.72	12.01	12.37	11.29	11.75	12.37	10.86	11.46	12.37
DIVERSION TUNNEL	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29
INTAKE (PRESSURE TYPE)	2.69	2.93	2.71	2.59	2.67	2.51	2.36	2.45	2.25	2.09
HEADRACE TUNNEL (PRESSURE)	2.22	2.20	2.20	2.20	2.14	2.13	2.13	2.03	2.02	2.01
SURGE TANK	1.68	1.67	1.66	1.65	1.60	1.59	1.57	1.49	1.47	1.46
PENSTOCK	1.83	1.63	1.73	1.83	1.56	1.69	1.83	1.45	1.60	1.78
(PRESSURE SHAFT)	(0.54)	(0.52)	(0.53)	(0.55)	(0.51)	(0.53)	(0.55)	(0.50)	(0.53)	(0.55)
(STEEL LINER)	(1.28)	(1.11)	(1.19)	(1.29)	(1.04)	(1.15)	(1.28)	(0.94)	(1.07)	(1.23)
POWERHOUSE BUILDING	3.50	3.20	3.33	3.47	2.99	3.17	3.38	2.70	2.92	3.17
(SUPER STRUCTURE)	(1.56)	(1.42)	(1.48)	(1.54)	(1.33)	(1.41)	(1.50)	(1.20)	(1.30)	(1.41)
(SUB STRUCTURE)	(1.94)	(1.78)	(1.85)	(1.93)	(1.66)	(1.76)	(1.88)	(1.50)	(1.62)	(1.76)
MISCELLANEOUS CIVIL WORK	3.25	3.01	3.11	3.24	2.84	3.00	3.22	2.66	2.86	3.18
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	18.66	17.50	17.98	18.48	16.56	17.24	17.97	15.21	16.02	16.93
ENGINEERING/ADMINISTRATION	10.86	10.09	10.42	10.32	9.51	10.03	10.69	8.89	9.50	10.46
CONTINGENCIES	19.56	18.17	18.76	19.47	17.13	18.05	19.25	16.01	17.11	18.83
S U B T O T A L	117.34	109.00	112.53	116.84	102.75	108.33	115.48	96.06	102.65	113.00

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 23.0 KM)

TRANSMISSION LINE	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56
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	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
CONTINGENCIES	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
S U B T O T A L	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83

T O T A L	125.87	117.53	121.06	125.37	111.28	116.86	124.01	104.59	111.18	121.53
-----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

EVALUATION INDICES

U S D / K W	2055.8	2188.2	2117.0	2055.7	2245.6	2148.9	2072.3	2369.9	2232.3	2146.0
U S D / K W H	0.857	0.904	0.877	0.853	0.915	0.879	0.850	0.942	0.892	0.860

PROJECT NAME : UPPER AGOS-1M
PROJECT ID : 4-007-00-03-0
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))	(43.2)	(38.5)	(41.4)	(44.7)	(37.8)	(40.9)	(44.8)	(37.0)	(40.4)	(44.4)
STORAGE DAM	20.76	17.09	18.57	20.76	16.61	18.20	20.76	16.13	17.82	20.76
SPILLWAY	7.51	6.93	7.17	7.51	6.85	7.12	7.51	6.76	7.06	7.51
DIVERSION TUNNEL	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89
INTAKE (PRESSURE TYPE)	2.39	2.20	2.07	1.95	2.17	2.02	1.89	2.13	1.98	1.84
HEADRACE TUNNEL (PRESSURE)	6.14	5.94	5.92	5.89	5.90	5.88	5.85	5.86	5.84	5.80
SURGE TANK	1.77	1.69	1.68	1.67	1.68	1.66	1.65	1.66	1.65	1.63
PENSTOCK	0.87	0.92	0.99	1.06	0.91	0.98	1.07	0.90	0.98	1.07
(PRESSURE SHAFT)	(0.34)	(0.34)	(0.35)	(0.36)	(0.34)	(0.35)	(0.37)	(0.33)	(0.35)	(0.37)
(STEEL LINER)	(0.63)	(0.58)	(0.63)	(0.70)	(0.57)	(0.63)	(0.70)	(0.56)	(0.63)	(0.70)
POWERHOUSE BUILDING	2.57	2.35	2.46	2.58	2.31	2.43	2.57	2.27	2.40	2.55
(SUPER STRUCTURE)	(1.14)	(1.04)	(1.09)	(1.15)	(1.03)	(1.08)	(1.14)	(1.01)	(1.07)	(1.14)
(SUB STRUCTURE)	(1.43)	(1.30)	(1.37)	(1.43)	(1.28)	(1.35)	(1.43)	(1.26)	(1.34)	(1.42)
MISCELLANEOUS CIVIL WORK	2.35	2.10	2.19	2.32	2.07	2.16	2.31	2.03	2.13	2.30
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	14.41	13.41	13.82	14.26	13.23	13.68	14.17	13.06	13.54	14.08
ENGINEERING/ADMINISTRATION	7.97	7.19	7.47	7.86	7.08	7.38	7.83	6.96	7.29	7.81
CONTINGENCIES	14.35	12.94	13.44	14.15	12.74	13.28	14.10	12.53	13.12	14.05
S U B T O T A L	86.10	77.65	80.67	84.90	76.42	79.68	84.61	75.18	78.69	84.31

ACCESS ROAD (ROAD LENGTH 23.0 KM)

CONSTRUCTION COST	5.06	5.06	5.06	5.06	5.06	5.06	5.06	5.06	5.06	5.06
ENGINEERING ADMINISTRATION	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
CONTINGENCIES	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
S U B T O T A L	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56

TRANSMISSION LINE SYSTEM (T/L LENGTH 18.0 KM)

TRANSMISSION LINE	1.22	0.83	1.22	1.22	0.83	1.22	1.22	0.83	1.22	1.22
SWITCHYARD AND SUBSTATION	0.62	0.54	0.62	0.62	0.54	0.62	0.62	0.54	0.62	0.62
ENGINEERING/ADMINISTRATION	0.23	0.17	0.23	0.23	0.17	0.23	0.23	0.17	0.23	0.23
CONTINGENCIES	0.31	0.23	0.31	0.31	0.23	0.31	0.31	0.23	0.31	0.31
S U B T O T A L	2.39	1.77	2.39	2.39	1.77	2.39	2.39	1.77	2.39	2.39

T O T A L	95.04	85.97	89.61	93.85	84.74	88.62	93.55	83.51	87.64	93.25
-----------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

EVALUATION INDICES

U S D / K W	2197.5	2230.3	2162.7	2099.4	2243.0	2165.3	2098.9	2255.7	2167.8	2092.7
U S D / K W H	1.454	1.454	1.410	1.369	1.458	1.408	1.364	1.482	1.406	1.360

PROJECT NAME : UPPER AGOS-1S
PROJECT ID : 4-007-00-04-0
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))	(24.1)	(19.4)	(21.4)	(23.5)	(17.0)	(19.5)	(22.4)	(14.5)	(17.6)	(21.0)
STORAGE DAM	18.11	14.53	16.13	18.11	12.99	15.10	18.11	11.28	14.05	18.11
SPILLWAY	7.51	6.83	7.14	7.51	6.51	6.95	7.51	6.12	6.73	7.51
DIVERSION TUNNEL	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73
INTAKE (PRESSURE TYPE)	1.46	1.47	1.41	1.35	1.34	1.25	1.18	1.20	1.11	1.03
HEADRACE TUNNEL (PRESSURE)	1.72	1.67	1.67	1.66	1.58	1.58	1.57	1.49	1.48	1.48
SURGE TANK	0.93	0.89	0.89	0.88	0.83	0.82	0.82	0.76	0.75	0.75
PENSTOCK	0.47	0.40	0.44	0.48	0.38	0.42	0.48	0.35	0.41	0.47
(PRESSURE SHAFT)	(0.21)	(0.19)	(0.20)	(0.21)	(0.18)	(0.20)	(0.21)	(0.18)	(0.20)	(0.21)
(STEEL LINER)	(0.27)	(0.21)	(0.24)	(0.27)	(0.19)	(0.22)	(0.26)	(0.17)	(0.21)	(0.25)
POWERHOUSE BUILDING	1.51	1.28	1.37	1.46	1.15	1.26	1.37	1.01	1.14	1.28
(SUPER STRUCTURE)	(0.67)	(0.57)	(0.61)	(0.65)	(0.51)	(0.56)	(0.61)	(0.45)	(0.51)	(0.57)
(SUB STRUCTURE)	(0.84)	(0.71)	(0.76)	(0.81)	(0.64)	(0.70)	(0.76)	(0.56)	(0.63)	(0.71)
MISCELLANEOUS CIVIL WORK	1.32	1.59	1.69	1.81	1.48	1.61	1.79	1.35	1.52	1.77
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	9.09	8.07	8.43	8.79	7.36	7.82	8.30	6.62	7.18	7.76
ENGINEERING/ADMINISTRATION	5.92	5.18	5.49	5.85	4.79	5.19	5.73	4.36	4.89	5.61
CONTINGENCIES	10.65	9.33	9.87	10.52	8.63	9.35	10.32	7.85	8.80	10.10
S U B T O T A L	63.93	55.98	59.25	63.14	51.77	56.08	61.91	47.13	52.79	60.59

ACCESS ROAD (ROAD LENGTH 23.0 KM)										
CONSTRUCTION COST	5.06	5.06	5.06	5.06	5.06	5.06	5.06	5.06	5.06	5.06
ENGINEERING ADMINISTRATION	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
CONTINGENCIES	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
S U B T O T A L	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56

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	71.37	63.42	66.69	70.58	59.21	63.53	69.35	54.57	60.23	68.03

EVALUATION INDICES										
U S D / K W	2957.6	3276.4	3123.4	3007.5	3480.4	3251.4	3099.3	3739.8	3423.4	3241.6
U S D / K W H	1.669	1.794	1.723	1.669	1.844	1.743	1.674	1.910	1.775	1.695

PROJECT NAME : UPPER AGOS-2
PROJECT ID : 4-007-00-05-0
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))	(120.7)	(114.4)	(123.3)	(133.0)	(108.6)	(121.2)	(135.2)	(101.8)	(116.5)	(134.1)
STORAGE DAM	96.57	89.35	91.92	96.57	83.15	87.79	96.57	77.26	82.71	96.57
SPILLWAY	18.11	17.51	17.73	18.11	16.99	17.38	18.11	16.46	16.96	18.11
DIVERSION TUNNEL	11.28	11.28	11.28	11.28	11.28	11.28	11.28	11.28	11.28	11.28
INTAKE (PRESSURE TYPE)	4.95	4.80	4.43	4.06	4.64	4.15	3.63	4.45	3.86	3.27
HEADRACE TUNNEL (PRESSURE)	3.24	3.19	3.18	3.17	3.15	3.13	3.11	3.08	3.06	3.03
SURGE TANK	2.41	2.37	2.33	2.30	2.31	2.27	2.22	2.24	2.19	2.13
PENSTOCK	4.03	3.90	4.28	4.71	3.77	4.31	4.90	3.62	4.24	4.96
(PRESSURE SHAFT)	(1.16)	(1.15)	(1.22)	(1.28)	(1.15)	(1.23)	(1.31)	(1.14)	(1.24)	(1.33)
(STEEL LINER)	(2.87)	(2.74)	(3.07)	(3.43)	(2.62)	(3.07)	(3.59)	(2.48)	(3.00)	(3.63)
POWERHOUSE BUILDING	8.67	8.31	8.73	9.16	7.97	8.56	9.18	7.56	8.25	9.02
(SUPER STRUCTURE)	(3.85)	(3.59)	(3.88)	(4.07)	(3.54)	(3.80)	(4.08)	(3.36)	(3.67)	(4.01)
(SUB STRUCTURE)	(4.81)	(4.62)	(4.85)	(5.09)	(4.43)	(4.76)	(5.10)	(4.20)	(4.58)	(5.01)
MISCELLANEOUS CIVIL WORK	7.46	7.04	7.19	7.47	6.66	6.94	7.45	6.30	6.63	7.42
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	29.28	28.34	29.26	30.21	27.42	28.74	30.07	26.27	27.83	29.48
ENGINEERING/ADMINISTRATION	23.25	22.01	22.54	23.38	20.92	21.82	23.32	19.81	20.87	23.16
CONTINGENCIES	41.85	39.62	40.58	42.08	37.65	39.28	41.97	35.67	37.57	41.69
S U B T O T A L	251.10	237.71	243.47	252.49	225.93	235.66	251.81	213.99	225.45	250.13

ACCESS ROAD (ROAD LENGTH 18.6 KM)

CONSTRUCTION COST	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09	4.09
ENGINEERING ADMINISTRATION	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
CONTINGENCIES	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
S U B T O T A L	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30

TRANSMISSION LINE SYSTEM (T/L LENGTH 21.0 KM)

TRANSMISSION LINE	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33
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	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
CONTINGENCIES	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
S U B T O T A L	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26

T O T A L	260.66	247.27	253.03	262.05	235.49	245.22	261.37	223.55	235.01	259.69
-----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

EVALUATION INDICES

U S D / K W	2159.4	2162.4	2052.0	1969.7	2168.9	2023.9	1933.2	2195.7	2018.0	1936.5
U S D / K W H	0.722	0.720	0.683	0.656	0.718	0.671	0.641	0.720	0.663	0.637

PROJECT NAME : WAWA
PROJECT ID : 4-115-01-01-0
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))	(55.9)	(51.2)	(55.8)	(60.8)	(47.8)	(54.0)	(60.9)	(43.9)	(51.6)	(60.0)
STORAGE DAM	59.97	52.38	55.29	59.97	47.94	52.46	59.97	43.09	49.43	59.97
SPILLWAY	15.55	14.70	15.04	15.55	14.18	14.71	15.55	13.58	14.36	15.55
DIVERSION TUNNEL	12.48	12.48	12.48	12.48	12.48	12.48	12.48	12.48	12.48	12.48
INTAKE (PRESSURE TYPE)	2.85	2.69	2.50	2.31	2.57	2.32	2.07	2.43	2.13	1.84
HEADRACE TUNNEL (PRESSURE)	1.99	1.95	1.95	1.94	1.91	1.90	1.89	1.86	1.85	1.83
SURGE TANK	1.34	1.30	1.28	1.27	1.25	1.24	1.22	1.21	1.19	1.16
PENSTOCK	1.74	1.66	1.82	2.00	1.59	1.81	2.04	1.51	1.77	2.06
(PRESSURE SHAFT)	(0.53)	(0.53)	(0.55)	(0.58)	(0.52)	(0.56)	(0.59)	(0.52)	(0.56)	(0.60)
(STEEL LINER)	(1.21)	(1.13)	(1.27)	(1.42)	(1.07)	(1.25)	(1.45)	(1.00)	(1.21)	(1.46)
POWERHOUSE BUILDING	3.00	2.80	2.96	3.13	2.65	2.87	3.10	2.47	2.74	3.02
(SUPER STRUCTURE)	(1.33)	(1.24)	(1.32)	(1.39)	(1.18)	(1.27)	(1.38)	(1.10)	(1.22)	(1.34)
(SUB STRUCTURE)	(1.66)	(1.56)	(1.65)	(1.74)	(1.47)	(1.59)	(1.72)	(1.37)	(1.52)	(1.68)
MISCELLANEOUS CIVIL WORK	4.95	4.50	4.67	4.93	4.23	4.49	4.92	3.93	4.30	4.90
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	15.76	14.95	15.52	16.11	14.29	15.07	15.85	13.52	14.50	15.44
ENGINEERING/ADMINISTRATION	14.95	13.68	14.19	14.96	12.89	13.67	14.89	12.01	13.09	14.78
CONTINGENCIES	26.91	24.62	25.54	26.93	23.19	24.60	26.79	21.61	23.57	26.61
S U B T O T A L	161.49	147.70	153.24	161.59	139.16	147.62	160.77	129.68	141.41	159.65

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	0.05	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 21.0 KM)

TRANSMISSION LINE	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43
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	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
CONTINGENCIES	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
S U B T O T A L	2.65	2.65	2.65	2.65	2.65	2.65	2.65	2.65	2.65	2.65

T O T A L : 165.16 151.38 156.92 155.26 142.84 151.30 164.44 133.36 145.09 163.32

EVALUATION INDICES

U S D / K W	2954.8	2955.1	2812.1	2716.3	2988.0	2802.9	2701.5	3036.1	2814.3	2722.1
U S D / K W H	0.986	0.979	0.932	0.901	0.981	0.922	0.889	0.985	0.917	0.887

PROJECT NAME : BOSIGON
PROJECT ID : S-014-01-01-0
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))	(44.7)	(40.4)	(42.3)	(44.2)	(37.0)	(39.5)	(42.7)	(33.5)	(36.7)	(40.8)
STORAGE DAM	16.86	15.20	15.99	16.86	13.89	15.04	16.86	12.77	14.07	16.86
SPILLWAY	9.57	9.21	9.38	9.57	8.92	9.17	9.57	8.64	8.96	9.57
DIVERSION TUNNEL	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
INTAKE (PRESSURE TYPE)	2.74	2.75	2.65	2.55	2.31	2.43	2.42	2.23	2.10	2.10
HEADRACE TUNNEL (PRESSURE)	4.59	4.52	4.50	4.48	4.36	4.33	4.29	3.41	3.38	3.34
SURGE TANK	2.22	2.17	2.16	2.14	2.07	2.04	2.02	1.89	1.86	1.82
PENSTOCK	1.31	1.23	1.28	1.32	1.18	1.24	1.31	0.86	0.92	0.99
(PRESSURE SHAFT)	(0.59)	(0.58)	(0.59)	(0.60)	(0.57)	(0.58)	(0.60)	(0.34)	(0.35)	(0.36)
(STEEL LINER)	(0.72)	(0.66)	(0.69)	(0.72)	(0.61)	(0.65)	(0.71)	(0.52)	(0.57)	(0.63)
POWERHOUSE BUILDING	4.25	3.94	4.06	4.17	3.66	3.81	4.00	2.37	2.50	2.67
(SUPER STRUCTURE)	(1.89)	(1.75)	(1.80)	(1.85)	(1.62)	(1.69)	(1.78)	(1.05)	(1.11)	(1.19)
(SUB STRUCTURE)	(2.36)	(2.19)	(2.25)	(2.32)	(2.03)	(2.12)	(2.22)	(1.32)	(1.39)	(1.48)
MISCELLANEOUS CIVIL WORK	2.26	2.15	2.20	2.26	2.03	2.10	2.22	1.82	1.90	2.07
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	17.51	16.56	16.85	17.15	15.55	15.96	16.44	14.44	14.94	15.55
ENGINEERING/ADMINISTRATION	8.17	7.72	7.89	8.06	7.28	7.52	7.88	6.58	6.85	7.38
CONTINGENCIES	14.71	13.90	14.20	14.52	13.11	13.54	14.18	11.85	12.33	13.28
S U B T O T A L	88.23	83.40	85.17	87.10	78.66	81.22	85.09	71.08	73.99	79.66

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 30.0 KM)

TRANSMISSION LINE	2.04	2.04	2.04	2.04	1.38	1.38	2.04	1.38	1.36	2.04
SWITCHYARD AND SUBSTATION	0.62	0.62	0.62	0.62	0.54	0.54	0.62	0.54	0.54	0.62
ENGINEERING/ADMINISTRATION	0.33	0.33	0.33	0.33	0.24	0.24	0.33	0.24	0.24	0.33
CONTINGENCIES	0.45	0.45	0.45	0.45	0.32	0.32	0.45	0.32	0.32	0.45
S U B T O T A L	3.44	3.44	3.44	3.44	2.48	2.48	3.44	2.48	2.48	3.44

T O T A L	91.67	86.84	88.61	90.54	81.15	83.70	88.53	73.56	76.48	83.10
-----------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

EVALUATION INDICES

U S D / K W	2051.2	2150.3	2096.1	2047.2	2195.8	2116.4	2073.1	2195.8	2055.6	2037.0
U S D / K W H	1.111	1.147	1.121	1.097	1.146	1.110	1.089	1.113	1.064	1.040

PROJECT NAME : PULANTUNA
PROJECT ID : S-020-00-01-0
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))	(9.1)	(8.7)	(9.1)	(8.6)	(8.7)	(8.8)	(9.0)	(9.1)	(1.0)	(1.3)
STORAGE DAM	7.42	7.13	7.42	7.04	7.13	7.23	7.33	7.42	4.25	7.42
SPILLWAY	5.83	6.74	6.83	6.71	6.74	6.77	6.80	6.83	5.50	6.83
DIVERSION TUNNEL	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70
INTAKE (PRESSURE TYPE)	0.85	0.82	0.79	0.81	0.80	0.79	0.78	0.77	0.14	0.09
HEADRACE TUNNEL (PRESSURE)	1.20	1.18	1.18	1.18	1.18	1.18	1.18	1.18	0.71	0.71
SURGE TANK	0.58	0.57	0.57	0.57	0.57	0.56	0.56	0.56	0.09	0.08
PENSTOCK	0.55	0.54	0.55	0.54	0.54	0.54	0.55	0.55	0.25	0.26
(PRESSURE SHAFT)	(0.31)	(0.31)	(0.32)	(0.31)	(0.31)	(0.31)	(0.32)	(0.32)	(0.18)	(0.18)
(STEEL LINER)	(0.23)	(0.23)	(0.23)	(0.22)	(0.23)	(0.23)	(0.23)	(0.23)	(0.07)	(0.03)
POWERHOUSE BUILDING	0.67	0.65	0.67	0.64	0.65	0.65	0.66	0.67	0.08	0.09
(SUPER STRUCTURE)	(0.30)	(0.29)	(0.30)	(0.28)	(0.29)	(0.29)	(0.29)	(0.30)	(0.04)	(0.04)
(SUB STRUCTURE)	(0.37)	(0.36)	(0.37)	(0.36)	(0.36)	(0.36)	(0.37)	(0.37)	(0.05)	(0.05)
MISCELLANEOUS CIVIL WORK	1.09	1.07	1.09	1.06	1.06	1.07	1.08	1.08	0.74	0.96
CONSTRUCTION FACILITIES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
POWER EQUIPMENT	4.73	4.60	4.69	4.56	4.59	4.62	4.65	4.67	0.76	0.77
ENGINEERING/ADMINISTRATION	3.45	3.37	3.44	3.35	3.37	3.39	3.41	3.43	2.03	2.61
CONTINGENCIES	6.21	6.07	6.18	6.03	6.06	6.10	6.14	6.17	3.65	4.71
S U B T O T A L	37.29	36.44	37.11	36.18	36.38	36.60	36.82	37.04	21.90	28.24

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 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	39.99	39.15	39.81	38.88	39.08	39.31	39.53	39.75	24.61	30.94
-----------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

EVALUATION INDICES

U S D / K W	4418.8	4495.2	4378.9	4524.4	4481.4	4442.1	4403.9	4366.7	23654.0	23682.8
U S D / K W H	1.447	1.459	1.430	1.464	1.453	1.443	1.434	1.424	5.635	5.587

