

目 次 1次スクリーニングにおける開発候補地点目録



## TABLE OF CONTENTS

Title	Page
Computer Output (1st Screening) for Lawas .....	II-1
Computer Output (1st Screening) for Tengoa .....	II-2
Computer Output (1st Screening) for Trusan .....	II-3
Computer Output (1st Screening) for Medamit-1 .....	II-4
Computer Output (1st Screening) for Medamit-2 .....	II-5
Computer Output (1st Screening) for Limbang .....	II-7
Computer Output (1st Screening) for Pasia .....	II-8
Computer Output (1st Screening) for Kapit-1 .....	II-9
Computer Output (1st Screening) for Kapit-2 .....	II-10
Computer Output (1st Screening) for Ibau .....	II-11
Computer Output (1st Screening) for Bangkit .....	II-12
Computer Output (1st Screening) for Tekalit .....	II-13
Computer Output (1st Screening) for Ayat .....	II-14
Computer Output (1st Screening) for Kanowit .....	II-16
Computer Output (1st Screening) for Sari-1 .....	II-17
Computer Output (1st Screening) for Sari-2 .....	II-18
Computer Output (1st Screening) for Sria-1 .....	II-19
Computer Output (1st Screening) for Sria-2 .....	II-20
Computer Output (1st Screening) for Sekrang-1 .....	II-21
Computer Output (1st Screening) for Sekrang-2 .....	II-22
Computer Output (1st Screening) for Lemanak .....	II-23



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 POTENTIAL SITE: ELAVAS (S-ELAVAS)  
 IDENTIFICATION NO.: 11  
 LOCATION: LATITUDE: 4° 44' 00" N LONGITUDE: 101° 22' 00" E  
 CONFLUENCE OF THE SAMALASAK RIVER  
 DISTANCE FROM LOAD CENTER: 51.0 KM  
 TYPE OF DEVELOPMENT: RESERVOIR  
 PROJECT FEATURES  
 CATCHMENT AREA (SQ. KM) = 710.0  
 MAX. TOPOGRAHICAL ELEVATION (ELM) = 150.0  
 MAX. HEAD OF DAM CHEST (M) = 50.0  
 RIVERBED ELEVATION AT ON-SITE (ELM) = 34.9  
 AVERAGE ANNUAL RAINFALL (MM) = 4750.0  
 AVERAGE ANNUAL EVAPORATION (MM) = 1470.0  
 AVERAGE ANNUAL RUNOFF (CMS) = 67.0  
 HEADRACE TUNNEL LENGTH (M) = 0.0  
 PENSTOCK TUNNEL LENGTH (M) = 700.0  
 PLANT FACTOR (%) = 6.3  
 DEMURRATION RATE (MM/YR) = 1.0

1. LOAD CENTER : ELAVAS
2. POTENTIAL SITE : ELAVAS (S-ELAVAS)
3. IDENTIFICATION NO. : 11
4. LOCATION : LATITUDE : 4° 44' 00" N LONGITUDE : 101° 22' 00" E  
CONFLUENCE OF THE SAMALASAK RIVER
5. DISTANCE FROM LOAD CENTER : 51.0 KM
6. TYPE OF DEVELOPMENT : RESERVOIR
7. PROJECT FEATURES

CATCHMENT AREA (SQ. KM) = 710.0  
 MAX. TOPOGRAHICAL ELEVATION (ELM) = 150.0  
 MAX. HEAD OF DAM CHEST (M) = 50.0  
 RIVERBED ELEVATION AT ON-SITE (ELM) = 34.9  
 AVERAGE ANNUAL RAINFALL (MM) = 4750.0  
 AVERAGE ANNUAL EVAPORATION (MM) = 1470.0  
 AVERAGE ANNUAL RUNOFF (CMS) = 67.0  
 HEADRACE TUNNEL LENGTH (M) = 0.0  
 PENSTOCK TUNNEL LENGTH (M) = 700.0  
 PLANT FACTOR (%) = 6.3  
 DEMURRATION RATE (MM/YR) = 1.0

4. PRELIMINARY POWER OUTPUT CALCULATION

DESCRIPTION	UNIT	CASE-1	CASE-2	CASE-3	CASE-4	CASE-5	CASE-6	CASE-7	CASE-8	CASE-9
DRAFT RATE	(LZ)	0.536	0.476	0.336	0.536	0.436	0.336	0.536	0.436	0.336
FIRM DISCHARGE	(CMS)	33.7	27.4	21.1	31.7	27.4	21.1	33.7	27.4	21.1
PEAK DISCHARGE	(CMS)	67.5	54.9	42.3	67.5	54.9	42.3	67.5	54.9	42.3
FULL SUPPLY LEVEL	(ELM)	152.4	152.4	152.4	151.5	142.2	134.1	150.5	152.1	115.9
RAISED WATER LEVEL	(ELM)	131.5	143.1	147.8	129.9	130.2	126.7	128.2	115.9	105.1
MIN. OPERATION LEVEL	(ELM)	89.7	124.5	138.7	86.5	100.1	111.8	83.5	83.5	83.5
TAIL WATER LEVEL	(ELM)	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
GROSS STORAGE	(MCM)	290.9	290.7	290.9	295.3	231.2	183.5	272.8	181.3	121.9
ACTIVE STORAGE	(MCM)	238.3	139.8	80.4	238.3	139.8	80.4	238.3	139.8	80.4
SEDIMENT VOLUME	(MCM)	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
POWER GENERATION EFFICIENCY		0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
GROSS HEAD	(M)	94.5	105.1	110.8	92.9	93.2	89.7	91.2	78.9	68.1
NET HEAD	(M)	85.1	95.5	99.8	83.6	83.9	80.7	82.1	71.0	61.3
INSTALLED CAPACITY	(MW)	46.1	42.1	33.9	45.3	37.0	27.4	46.5	31.3	20.8

9. REMARKS :

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 INVENTORY OF POTENTIAL SITE FOR THE FIRST SCREENING \*\*  
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- 1. LOAD CENTER : LIMBANG
- 2. POTENTIAL SITE : YEMGOA (S.TENGOA)
- 3. IDENTIFICATION NO. : 12
- 4. LOCATION : LATITUDE : 4 37 0 N LONGITUDE : 115 23 0 E  
 NOTE : ABOUT 4-5 KM UPSTREAM FROM THE CONFLUENCE OF THE S.SUBU
- 5. DISTANCE FROM LOAD CENTER : 45.0 KM
- 6. TYPE OF DEVELOPMENT : RESERVOIR

- 7. PROJECT FEATURES
- CATCHMENT AREA (SQ.KM) : 221.0
- MAX. TOPOGRAPHICAL ELEVATION (EL.M) : 304.8
- MAX. WIDTH OF DAM CREST (M) : 600.0
- RIVERBED ELEVATION AT DAMSITE (EL.M) : 121.0
- AVERAGE ANNUAL RAINFALL (MM) : 4000.0
- AVERAGE ANNUAL EVAPORATION (MM) : 1415.0
- AVERAGE ANNUAL RUNOFF (CMS) : 19.0
- HEADRACE TUNNEL LENGTH (M) : 0.0
- PERSTOCK TUNNEL LENGTH (M) : 150.0
- PLANT FACTOR (%) : 0.5
- DEBURGATION RATE (MM/YR) : 1.0

8. PRELIMINARY POWER OUTPUT CALCULATION

DESCRIPTION	UNIT	CASE-1	CASE-2	CASE-3	CASE-4	CASE-5	CASE-6	CASE-7	CASE-8	CASE-9
DRAFT RATE (CMS)	(CMS)	0.851	0.715	0.645	0.851	0.735	0.665	0.851	0.785	0.665
FLUM DISCHARGE	(CMS)	15.3	14.1	12.0	15.3	14.1	12.0	15.3	14.1	12.0
PEAK DISCHARGE	(CMS)	30.6	28.3	23.9	30.6	29.3	23.9	30.6	28.3	23.9
FULL SUPPLY LEVEL (EL.M)	(EL.M)	304.8	304.8	304.8	292.6	276.9	269.8	260.4	249.0	213.5
RATED WATER LEVEL (EL.M)	(EL.M)	295.0	297.5	299.9	269.9	266.3	262.4	230.0	222.4	213.5
MIN. OPERATION LEVEL (EL.M)	(EL.M)	275.5	283.0	290.2	241.6	245.1	247.7	169.0	169.0	169.0
TAIL WATER LEVEL (EL.M)	(EL.M)	171.0	131.0	171.0	131.0	131.0	131.0	131.0	131.0	131.0
GROSS STORAGE (MCM)	(MCM)	550.1	550.1	550.1	377.0	332.5	289.3	241.0	182.6	126.1
ACTIVE STORAGE (MCM)	(MCM)	288.5	170.1	113.6	228.5	170.1	113.6	228.5	170.1	113.6
SEDIMENT VOLUME (MCM)	(MCM)	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
POWER GENERATION EFFICIENCY (%)	(%)	3.82	0.87	0.82	0.82	0.82	0.82	0.82	0.82	0.82
GROSS HEAD (M)	(M)	164.0	166.5	158.9	137.9	135.3	131.4	99.0	91.4	82.0
NET HEAD (M)	(M)	147.6	149.9	152.0	124.2	121.8	118.3	89.1	82.2	73.8
INSTALLED CAPACITY (MW)	(MW)	36.3	34.1	29.2	30.5	27.7	22.7	21.9	18.7	14.2

9. REMARKS : THIS SITE IS IDENTIFIED BY JICA PRELIMINARY STUDY TEAM.

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 \*\* INVENTORY OF POTENTIAL SITES FOR THE FIRST SCREENING \*\*  
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- 1. LOAD CENTER : LIMBANG
- 2. POTENTIAL SITE : TRUSMI (D. TRUSMI)
- 3. IDENTIFICATION NO.: 13
- 4. LOCATION : LATITUDE : 4 28 21 N LONGITUDE : 115 21 0 E
- NOTE : ABOUT 2 KM DOWNSTREAM FROM THE CONFLUENCE OF THE S. SEPARER
- 5. DISTANCE FROM LOAD CENTER : 51.5 KM
- 6. TYPE OF DEVELOPMENT : RESERVOIR

7. PROJECT FEATURES

CATCHMENT AREA (SQ KM) : 2077.0  
 MAX. TOPOGRAPHICAL ELEVATION (ELEM) : 841.0  
 MAX. WIDTH OF DAM CREST (M) : 599.0  
 RIVERBED ELEVATION AT DAM SIT. (ELEM) : 219.0  
 AVERAGE ANNUAL RAINFALL (MM) : 3500.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1333.0  
 AVERAGE ANNUAL RUNOFF (MM) : 117.0  
 HEADRACE TUNNEL LENGTH (M) : 10.0  
 PENSTOCK TUNNEL LENGTH (M) : 157.0  
 PLANT FACTOR : 0.8  
 DEMONSTRATION RATE : 1.0

8. PRELIMINARY POWER OUTPUT CALCULATION

DESCRIPTION	UNIT	CASE-2	CASE-3	CASE-4	CASE-5	CASE-6	CASE-7	CASE-8	CASE-9
URIFT RATE (M)	(M)	0.470	0.434	0.534	0.436	0.336	0.536	0.436	0.336
FIRM DISCHARGE (CMS)	(CMS)	59.7	49.1	73.5	59.8	46.1	73.5	59.8	46.1
PEAK DISCHARGE (CMS)	(CMS)	117.5	92.1	146.9	119.5	92.1	146.9	119.5	92.1
FULL SUPPLY LEVEL (ELEM)	(ELEM)	181.0	181.0	380.0	369.8	380.0	379.1	358.7	340.4
RATED WATER LEVEL (ELEM)	(ELEM)	170.0	175.3	354.4	355.9	354.4	352.1	338.5	326.2
MIN. OPERATION LEVEL (ELEM)	(ELEM)	171.0	166.4	307.0	320.0	334.6	297.9	297.9	297.9
TAIL WATER LEVEL (ELEM)	(ELEM)	200.0	200.0	220.0	220.0	220.0	220.0	220.0	220.0
GROSS STORAGE (MCM)	(MCM)	450.7	450.3	575.2	521.2	426.6	626.1	411.7	281.8
ACTIVE STORAGE (MCM)	(MCM)	400.9	175.9	519.9	305.4	175.5	519.9	305.4	175.5
SEDIMENT VOLUME (MCM)	(MCM)	101.1	101.1	101.3	101.3	101.3	101.3	101.3	101.3
POWER GENERATION EFFICIENCY (%)	(%)	1.0	0.82	0.82	0.82	0.82	0.82	0.82	0.82
GROSS HEAD (M)	(M)	100.0	154.0	144.4	135.9	132.0	132.1	118.5	106.2
NET HEAD (M)	(M)	100.0	140.7	120.9	122.3	118.8	118.9	106.6	95.6
INSTALLED CAPACITY (MW)	(MW)	100.0	103.8	141.7	117.4	97.9	140.3	102.4	70.5

9. REMARKS :

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 \*\* INVENTORY OF POTENTIAL SITE FOR THE FIRST SCREENING \*\*  
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1. LOAD CENTER : LIMRANG  
 2. POTENTIAL SITE : MEDAMIT-1 (S-MEDAMIT)  
 3. IDENTIFICATION NO.: 14  
 4. LOCATION : LATITUDE : 4 21 0 N LONGITUDE : 115 6 0 E  
 NOTE : ABOUT 5.0 KM UPSTREAM FROM THE  
 CONFLUENCE OF THE S-DEBARONG  
 5. DISTANCE FROM LOAD CENTER : 55.5 KM  
 6. TYPE OF DEVELOPMENT : RUN-OF-RIVER

7. PROJECT FEATURES

CATCHMENT AREA (SQ. KM) : 146.0  
 RIVERBED ELEVATION AT DAMSITE (EL: M) : 177.0  
 AVERAGE ANNUAL RAINFALL (MM) : 4000.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1390.0  
 AVERAGE ANNUAL RUNOFF (CMS) : 12.0  
 HEADRACE TUNNEL LENGTH (M) : 4550.0  
 PENSTOCK TUNNEL LENGTH (M) : 500.0  
 \*SLANT FACTOR : 0.5

8. PRELIMINARY POWER OUTPUT CALCULATION

FIRM DISCHARGE (CMS) : 3.4  
 DEPENDABLE PEAK DISCHARGE (CMS) : 6.7  
 MAXIMUM TURBINE DISCHARGE (CMS) : 22.4  
 FULL SUPPLY LEVEL (EL: M) : 180.0  
 TAIL WATER LEVEL (EL: M) : 100.0  
 POWER GENERATION EFFICIENCY (%) : 80.82  
 GROSS HEAD (M) : 80.0  
 NET HEAD (M) : 72.7  
 FIRM OUTPUT (MW) : 1.5  
 DEPENDABLE PEAK OUTPUT (MW) : 3.0  
 INSTALLED CAPACITY (MW) : 3.0

9. REMARKS :

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 INVENTORY OF POTENTIAL SITE FOR THE FIRST SCREENING \*\*  
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1. LOAD CENTER : LIMBANG  
 2. POTENTIAL SITE : MEDAMIT-2 (S-MEDAMIT)  
 3. IDENTIFICATION NO.: 15  
 4. LOCATION : LATITUDE 4 21 0 N LONGITUDE 115 4 0 E

NOTE : ABOUT 300 M DOWNSTREAM FROM THE  
 CONFLUENCE OF THE S-REGARONG

5. DISTANCE FROM LOAD CENTER : 44.5 KM  
 6. TYPE OF DEVELOPMENT : RESERVOIR

7. PROJECT FEATURES

CATCHMENT AREA (SQ.KM) : 185.0  
 MAX. TOPOGRAPHICAL ELEVATION (EL:M) : 243.6  
 MAX. WIDTH OF DAM CREST (M) : 100.0  
 RIVERBED ELEVATION AT DAMSITE (EL:M) : 134.0  
 AVERAGE ANNUAL RAINFALL (MM) : 3750.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1410.0  
 AVERAGE ANNUAL RUNOFF (CMS) : 14.0  
 HEADRACE TUNNEL LENGTH (M) : 4400.0  
 PENSTOCK TUNNEL LENGTH (M) : 350.0  
 PLANT FACTOR : 0.5  
 DENUGATION RATE (MM/YR) : 1.0

8. PRELIMINARY POWER OUTPUT CALCULATION

DESCRIPTION	UNIT	CASE-1	CASE-2	CASE-3	CASE-4	CASE-5	CASE-6	CASE-7	CASE-8	CASE-9
DRAFT RATE (%)		0.251	0.745	0.665	0.451	0.785	0.665	0.851	0.785	0.665
FIRM DISCHARGE (CMS)		11.9	11.0	9.3	11.9	11.0	9.3	11.9	11.0	9.3
PEAK DISCHARGE (CMS)		23.8	22.0	18.6	23.8	22.0	18.6	23.8	22.0	18.6
FULL SUPPLY LEVEL (EL:M)		243.6	243.6	243.6	239.0	235.0	230.1	234.5	226.4	216.5
RATED WATER LEVEL (EL:M)		230.9	235.4	234.6	234.3	224.5	223.1	214.2	208.8	202.2
MIN. OPERATION LEVEL (EL:M)		205.5	219.0	221.7	197.0	203.4	209.0	173.5	173.5	173.5
TAIL WATER LEVEL (EL:M)		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
GROSS STORAGE (MCM)		242.4	242.4	242.4	215.0	191.4	162.2	188.2	142.8	98.9
NET STORAGE (MCM)		177.7	132.3	88.4	177.7	132.3	88.4	177.7	132.3	88.4
SEDIMENT VOLUME (MCM)		9.1	9.3	9.3	9.1	9.3	9.3	9.3	9.3	9.3
POWER GENERATION EFFICIENCY (%)		0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
GROSS HEAD (M)		160.9	168.4	168.4	168.4	154.5	153.1	144.2	138.8	132.2
NET HEAD (M)		144.8	148.9	148.9	148.9	139.0	137.8	129.8	124.9	119.0
INSTALLED CAPACITY (MW)		27.7	26.3	22.7	26.6	24.6	20.6	24.8	22.1	17.8

9. REMARKS : THIS SITE IS IDENTIFIED BY JICA PRELIMINARY STUDY TEAM.  
 THIS SITE PROCEEDED TO THE SECOND SCREENING.

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 \*\* INVENTORY OF POTENTIAL SITE FOR THE FIRST SCREENING \*\*  
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1. LOAD CENTER : LIMBANG  
 2. POTENTIAL SITE : MEGAMIT-2 (S. MEGAMITI)  
 3. IDENTIFICATION NO.: 15  
 4. LOCATION : LATITUDE : 4 21 0 N LONGITUDE : 115 4 0 E  
 NOTE : ABOUT 300 M DOWNSTREAM FROM THE  
 CONFLUENCE OF THE S. OEGARONG  
 5. DISTANCE FROM LOAD CENTER : 47.5 KM  
 6. TYPE OF DEVELOPMENT : RUN-OF-RIVER

7. PROJECT FEATURES

CATCHMENT AREA (SQ. KM) : 185.0  
 RIVERBED ELEVATION AT DAMSITE (EL. M) : 136.0  
 AVERAGE ANNUAL RAINFALL (MM) : 3750.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1410.0  
 AVERAGE ANNUAL RUNOFF (CMS) : 14.0  
 HEADRACE TUNNEL LENGTH (M) : 4400.0  
 PENSTOCK TUNNEL LENGTH (M) : 350.0  
 PLANT FACTOR : 0.5

8. PRELIMINARY POWER OUTPUT CALCULATION

FIRM DISCHARGE (CMS) : 1.9  
 DEPENDABLE PEAK DISCHARGE (CMS) : 7.8  
 MAXIMUM TURBINE HEAD (M) : 20.1  
 FULL SUPPLY LEVEL (EL. M) : 137.0  
 TAIL WATER LEVEL (EL. M) : 10.0  
 POWER GENERATION EFFICIENCY (%) : 0.82  
 GROSS HEAD (M) : 57.0  
 NET HEAD (M) : 50.3  
 FIRM OUTPUT (MW) : 1.9  
 DEPENDABLE PEAK OUTPUT (MW) : 3.8  
 INSTALLED CAPACITY (MW) : 12.6

9. REMARKS : THIS SITE IS IDENTIFIED BY JICA PRELIMINARY STUDY TEAM.  
 THIS SITE IS PRIORITY 1) THE SECOND SCREENING.

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 \*\* INVENTORY OF POTENTIAL SITE FOR THE FIRST SCREENING \*\*  
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1. LOAD CENTER : LIMBANG  
 2. POTENTIAL SITE : LIMBANG (S-LIMBANG)  
 3. IDENTIFICATION NO.: 16  
 4. LOCATION : LATITUDE 4 19 0 N LONGITUDE 115 2 0 E  
 NOTE : ABOUT 500 M DOWNSTREAM FROM THE CONFLUENCE OF THE S-SEMAP  
 5. DISTANCE FROM LOAD CENTER : 40.0 KM  
 6. TYPE OF DEVELOPMENT : RESERVOIR

7. PROJECT FEATURES

CATCHMENT AREA (SQ.KM) : 1860.0  
 MAX. TOPOGRAPHICAL ELEVATION (SL.M) : 152.4  
 MAX. WIDTH OF DAM CREST (M) : 550.0  
 RIVERBED ELEVATION AT DAMSITE (EL.M) : 65.0  
 AVERAGE ANNUAL RAINFALL (MM) : 4250.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1400.0  
 AVERAGE ANNUAL RUNOFF (CMS) : 166.0  
 HEADRAGE TUNNEL LENGTH (M) : 0.0  
 PERJSTOCK TUNNEL LENGTH (M) : 100.0  
 PLANT FACTOR : 0.5  
 DENUDATION RATE (MM/YR) : 1.0

8. PRELIMINARY POWER OUTPUT CALCULATION

DESCRIPTION	UNIT	CASE-1	CASE-2	CASE-3	CASE-4	CASE-5	CASE-6	CASE-7	CASE-8	CASE-9
DRAFT RATE (%)		0.603	0.503	0.403	0.403	0.503	0.403	0.603	0.503	0.403
FIRM DISCHARGE (CMS)		100.1	83.5	66.9	100.1	83.5	66.9	100.1	83.5	66.9
PEAK DISCHARGE (CMS)		200.1	166.9	133.7	200.1	166.9	133.7	200.1	166.9	133.7
FULL SUPPLY LEVEL (EL.M)		152.4	152.4	152.4	151.9	147.2	142.8	151.3	142.1	133.2
WATED WATER LEVEL (EL.M)		140.0	146.6	149.4	139.6	138.5	138.8	138.9	132.8	126.8
MIN. OPERATION LEVEL (EL.M)		113.1	135.1	143.4	119.0	121.2	130.9	114.1	114.1	114.1
FALL WATER LEVEL (EL.M)		67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
GROSS STORAGE (MCM)		354.3	94.3	94.3	946.5	792.3	655.4	928.7	633.8	391.6
AUTUAL STORAGE (MCM)		520.4	531.5	290.3	224.4	531.5	289.3	826.4	531.5	289.3
SEDIMENT VOLUME (MCM)		93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
POWER GENERATION EFFICIENCY (%)		0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
GROSS HEAD (M)		79.0	72.6	84.9	72.6	71.5	71.8	71.9	65.8	59.8
NET HEAD (M)		64.7	71.7	76.2	65.4	64.4	64.7	64.7	59.2	53.9
INSTALLED CAPACITY (MW)		105.6	95.1	79.7	105.1	86.4	69.5	104.1	79.4	57.9

9. REMARKS : THIS SITE IS IDENTIFIED BY JICA PRELIMINARY STUDY TEAM.

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 \*\* INVENTORY OF POTENTIAL SITE FOR THE FIRST SCREENING \*\*  
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- 1. LOAD CENTER : LYRANG
- 2. POTENTIAL SITE : PASIA YS-PASIA
- 3. IDENTIFICATION NO.: 17
- 4. LOCATION : LATITUDE : 4 21 0 N LONGITUDE 115 24 0 E  
 NOTE : ABOUT 8-2 KM UPSTREAM FROM THE  
 CONFLUENCE OF THE B-TRUSAN
- 5. DISTANCE FROM LOAD CENTER : 51.0 KM
- 6. TYPE OF DEVELOPMENT : RUN-OFF-RIVER

7. PROJECT FEATURES

CATCHMENT AREA (SQ.KM) : 177.0  
 RIVERBED ELEVATION AT DAMSITE (EL.M) : 674.0  
 AVERAGE ANNUAL RAINFALL (MM) : 3500.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1130.0  
 AVERAGE ANNUAL RUNOFF (CMS) : 13.0  
 HEADRACE TUNNEL LENGTH (M) : 6000.0  
 PENSTOCK TUNNEL LENGTH (M) : 550.0  
 PLANT FACTOR : 7.5

8. PRELIMINARY POWER OUTPUT CALCULATION

FIRM DISCHARGE (CMS) : 3.6  
 DEPENDABLE PEAK DISCHARGE (CMS) : 7.2  
 MAXIMUM TURBIN DISCHARGE (CMS) : 24.2  
 FULL SUPPLY LEVEL (EL.M) : 677.0  
 TAIL WATER LEVEL (EL.M) : 366.0  
 POWER GENERATION EFFICIENCY (%) : 0.82  
 GROSS HEAD (M) : 311.0  
 NET HEAD (M) : 270.9  
 FIRM OUTPUT (MW) : 3.2  
 DEPENDABLE PEAK OUTPUT (MW) : 16.4  
 INSTALLED CAPACITY (MW) : 54.5

9. REMARKS : THIS SITE PROCEEDED TO THE SECOND SCREENING.

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 \*\* INVOLVING OF POTENTIAL SITE FOR THE FIRST SCREENING \*\*  
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1. LOAD CENTER : KAPIT  
 2. POTENTIAL SITE : KAPIT-1 (S. MENUAN)  
 3. IDENTIFICATION NO.: 71  
 4. LOCATION : LATITUDE 2 5 0 N LONGITUDE 115 54 0 E  
 NOTE : ABOUT 1.5 KM DOWNSTREAM FROM THE  
 CONFLUENCE OF THE S. ENKRATAN  
 5. DISTANCE FROM LOAD CENTER : 2.0 KM  
 6. TYPE OF DEVELOPMENT : RESERVOIR

7. PROJECT FEATURES

CATCHMENT AREA (SQ. KM) : 101.0  
 MAX. TOPOGRAPHICAL ELEVATION (EL. M) : 61.0  
 MAX. WIDTH OF DAM CREST (M) : 200.0  
 RIVERBED ELEVATION AT DAMSITE (EL. M) : 30.0  
 AVERAGE ANNUAL RAINFALL (MM) : 4000.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1473.0  
 AVERAGE ANNUAL RUNOFF (CMS) : 4.0  
 HEADRACE TUNNEL LENGTH (M) : 0.0  
 PENSTOCK TUNNEL LENGTH (M) : 40.0  
 PLANT FACTOR : 0.5  
 DEMANDATION RATE (MM/YR) : 1.0

8. PRELIMINARY POWER OUTPUT CALCULATION

DESCRIPTION	CASE-1	CASE-2	CASE-3	CASE-4	CASE-5	CASE-6	CASE-7	CASE-8	CASE-9
DRAFT RATE (CMS)	0.527	0.477	0.327	0.527	0.427	0.327	0.527	0.427	0.327
FINA DISCHARGE (CMS)	4.2	3.4	2.6	4.2	3.4	2.6	4.2	3.4	2.6
PEAK DISCHARGE (CMS)	8.4	6.8	5.2	8.4	6.8	5.2	8.4	6.8	5.2
FULL SUPPLY LEVEL (EL. M)	61.0	61.0	61.0	60.8	59.3	57.7	60.6	57.1	54.3
RATED WATER LEVEL (EL. M)	24.6	24.6	24.6	24.2	23.4	22.6	24.4	23.4	22.6
MIN. OPERATION LEVEL (EL. M)	47.3	47.3	47.3	46.9	45.9	45.9	45.9	45.9	45.9
TAIL RATES LEVEL (EL. M)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
GROSS STORAGE (MCM)	37.2	37.2	37.2	36.5	30.4	25.3	35.8	23.5	16.5
ACTIVE STORAGE (MCM)	27.0	16.8	9.8	29.0	29.8	29.8	29.0	15.8	9.8
SEDIMENT VOLUME (MCM)	3.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
POWER GENERATION EFFICIENCY (%)	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
GROSS HEAD (M)	26.6	29.2	30.1	26.2	26.9	26.9	25.7	23.4	21.5
NET HEAD (M)	23.9	26.4	27.1	23.6	24.2	23.8	23.1	21.0	19.4
INSTALLED CAPACITY (MW)	1.6	1.4	1.1	1.6	1.3	1.0	1.6	1.1	0.8

9. REMARKS : THIS SITE IS IDENTIFIED BY JICA PRELIMINARY STUDY TEAM.  
 THIS SITE PROCESSED TO THE SECOND SCREENING.

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 \*\* INVENTORY OF POTENTIAL SITE FOR THE FIRST SCREENING \*\*  
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1. LOAD CENTER : KAPIT  
 2. POTENTIAL SITE : KAPIT-2 (S.BENUANG)  
 3. IDENTIFICATION NO.: 22  
 4. LOCATION : LATITUDE : 1 48 0 N LONGITUDE : 115 47 0 E  
 NOTE : ABOUT 1.5 KM UPSTREAM FROM THE CONFLUENCE OF THE S-MUKOH RIVER  
 5. DISTANCE FROM LOAD CENTER : 27.0 KM  
 6. TYPE OF DEVELOPMENT : RESERVOIR

7. PROJECT FEATURES

CATCHMENT AREA (SQ.KM) : 220.0  
 MAX. TOPOGRAPHICAL ELEVATION (EL.M) : 182.9  
 MAX. WIDTH OF DAM CREST (M) : 220.0  
 RIVERBED ELEVATION AT DAMSITE (EL.M) : 104.0  
 AVERAGE ANNUAL RAINFALL (MM) : 4100.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1430.0  
 AVERAGE ANNUAL RUNOFF (CMS) : 19.0  
 HEADRACE TUNNEL LENGTH (M) : 0.0  
 PENSTOCK TUNNEL LENGTH (M) : 80.0  
 PLANT FACTOR : 0.5  
 DEREGULATION RATE (MM/YR) : 1.0

8. PRELIMINARY POWER OUTPUT CALCULATION

PARAMETER	UNIT	CASE-1	CASE-2	CASE-3	CASE-4	CASE-5	CASE-6	CASE-7	CASE-8	CASE-9
WRAFT RATE	(L)	0.662	0.562	0.662	0.662	0.562	0.462	0.662	0.562	0.462
FIRM DISCHARGE	(CMS)	12.6	10.7	8.8	12.6	10.7	8.8	12.6	10.7	8.8
PEAK DISCHARGE	(CMS)	25.1	21.3	17.5	25.1	21.3	17.5	25.1	21.3	17.5
FULL SUPPLY LEVEL	(EL.M)	182.9	182.9	182.9	182.4	177.5	172.9	181.9	172.1	162.9
RATED WATER LEVEL	(EL.M)	168.9	175.4	178.6	167.9	168.9	167.7	167.0	160.5	154.3
MIN. OPERATION LEVEL	(EL.M)	140.8	160.3	170.1	139.0	151.6	157.4	137.2	137.2	137.2
FALL WATER LEVEL	(EL.M)	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0
GROSS STORAGE	(MCM)	136.9	136.9	136.9	134.9	115.6	97.3	132.8	94.8	63.8
ACTIVE STORAGE	(MCM)	11.0	11.0	11.0	119.6	80.6	49.3	118.6	80.6	49.3
SEDIMENT VOLUME	(MCM)	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
POWER GENERATION EFFICIENCY	(%)	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
GROSS HEAD	(M)	63.9	70.4	73.6	62.9	63.9	62.7	62.0	55.5	49.3
NET HEAD	(M)	57.5	63.3	66.3	56.7	57.5	56.5	55.8	49.9	44.4
INSTALLED CAPACITY	(MW)	11.6	10.8	9.3	11.4	9.8	7.9	11.3	8.5	6.2

9. REMARKS : THIS SITE IS IDENTIFIED BY JICA PRELIMINARY STUDY TEAM.  
 THIS SITE PROCEEDED TO THE SECOND SCREENING.

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 \*\* INVENTORY OF POTENTIAL SITE FOR THE FIRST SCREENING \*\*  
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1. LOAD CENTER : KAPIT  
 2. POTENTIAL SITE : IBAU (S-IBAU)  
 3. IDENTIFICATION NO.: 23  
 4. LOCATION : LATITUDE 2 4 0 N LONGITUDE 112 43 0 E  
 NOTE : ABOUT 800 M UPSTREAM FROM THE CONFLUENCE OF THE S-SANYABU  
 5. DISTANCE FROM LOAD CENTER : 25.0 KM  
 6. TYPE OF DEVELOPMENT : RESERVOIR

7. PROJECT FEATURES

CATCHMENT AREA (SQ-KM) : 163.0  
 MAX. TOPOGRAPHICAL ELEVATION (EL:M) : 121.9  
 MAX. WIDTH OF DAM CREST (M) : 300.0  
 RIVERBED ELEVATION AT DAMSITE (EL:M) : 42.0  
 AVERAGE ANNUAL RAINFALL (MM) : 3500.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1455.0  
 AVERAGE ANNUAL RUNOFF (CMS) : 11.0  
 HEADRACE TUNNEL LENGTH (M) : 0.0  
 PENSTOCK TUNNEL LENGTH (M) : 150.0  
 PLANT FACTOR : 0.5  
 DENUDATION RATE (MM/YR) : 1.0

8. PRELIMINARY POWER OUTPUT CALCULATION

DESCRIPTION	UNIT	CASE-1	CASE-2	CASE-3	CASE-4	CASE-5	CASE-6	CASE-7	CASE-8	CASE-9
DRAFT RATE (L)		0.651	0.785	0.665	0.851	0.785	0.665	0.851	0.785	0.665
FIRM DISCHARGE (CMS)		9.4	9.6	7.3	9.4	9.6	7.3	9.4	8.6	7.3
PEAK DISCHARGE (CMS)		18.7	17.3	14.6	18.7	17.3	14.6	18.7	17.3	14.6
HEADRACE WATER LEVEL (EL:M)		121.9	121.9	121.9	108.1	105.9	102.9	94.3	89.9	83.8
TAIL WATER LEVEL (EL:M)		116.3	117.7	119.1	102.9	102.1	100.4	82.0	79.1	75.0
HEAD OPERATION LEVEL (EL:M)		105.0	109.3	113.5	92.6	94.5	95.4	57.4	57.4	57.4
TAIL WATER LEVEL (EL:M)		42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
GROSS STORAGE (MCM)		399.1	399.1	399.1	276.1	255.7	229.4	150.3	114.6	80.1
NET STORAGE (MCM)		139.6	103.9	69.4	139.6	103.9	69.4	139.6	103.9	69.4
SEDIMENT VOLUME (MCM)		8.1	9.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
POWER GENERATION EFFICIENCY (%)		0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
GROSS HEAD (M)		74.7	75.7	77.1	69.9	69.1	58.4	40.0	37.1	33.0
NET HEAD (M)		56.8	59.1	59.4	54.8	54.1	52.6	36.0	33.4	29.7
INSTALLED CAPACITY (MW)		10.0	9.5	9.1	3.2	7.5	6.2	5.4	4.6	3.5

9. REMARKS : THIS SITE PROCEEDED TO THE SECOND SCREENING.

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 INVENTORY OF POTENTIAL SITE FOR THE FIRST SCREENING \*\*  
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1. LOAD CENTER : KAPIT
2. POTENTIAL SITE : BANGKIT (S-BANGKIT)
3. IDENTIFICATION NO.: 24
4. LOCATION : LATITUDE 1 39 0 N LONGITUDE 112 48 0 E  
 NOTE : ABOUT 200 M UPSTREAM FROM THE  
 CONFLUENCE OF THE S-IRANG
5. DISTANCE FROM LOAD CENTERS : 43.0 KM
6. TYPE OF DEVELOPMENT : RESERVOIR

7. PROJECT FEATURES

CATCHMENT AREA (SQ.KM) : 167.0  
 MAX. TOPOGRAPHICAL ELEVATION (EL.M) : 274.3  
 MAX. WIDTH OF DAM CREST (M) : 750.0  
 RIVERBED ELEVATION AT DAM SITE (EL.M) : 162.0  
 AVERAGE ANNUAL RAINFALL (MM) : 4100.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1395.0  
 AVERAGE ANNUAL RUNOFF (CMS) : 14.0  
 HEADRACE TUNNEL LENGTH (M) : 0.0  
 PENSTOCK TUNNEL LENGTH (M) : 700.0  
 PLANT FACTOR : 0.5  
 DEMONUATION RATE (MM/YR) : 1.0

8. PRELIMINARY POWER OUTPUT CALCULATION

DESCRIPTION	UNIT	CASE-1	CASE-2	CASE-3	CASE-4	CASE-5	CASE-6	CASE-7	CASE-8	CASE-9
DRAFT RATE (%)		0.325	0.725	0.825	0.825	0.725	0.625	0.825	0.725	0.625
FIRM DISCHARGE (CMS)		11.5	10.1	8.7	11.5	10.1	8.7	11.5	10.1	8.7
PEAK DISCHARGE (CMS)		23.1	20.3	17.5	23.1	20.3	17.5	23.1	20.3	17.5
FULL SUPPLY LEVEL (EL.M)		274.3	274.3	274.3	270.5	246.1	234.5	266.7	218.0	194.8
RATED WATER LEVEL (EL.M)		241.5	246.2	248.8	238.5	225.2	219.1	235.5	203.0	187.6
MIN. OPERATIONAL LEVEL (EL.M)		175.0	192.9	197.7	174.5	193.2	188.2	173.1	173.1	173.1
TAIL WATER LEVEL (EL.M)		122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0
GROSS STORAGE (MCM)		179.1	176.1	176.1	172.3	148.1	136.6	168.5	120.2	87.8
ACTIVE STORAGE (MCM)		157.0	158.0	156.1	157.0	152.5	142.3	157.0	108.8	76.3
SEDIMENT VOLUME (MCM)		8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
POWER GENERATION EFFICIENCY (%)		10.5	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
GROSS HEAD (M)		119.5	126.3	126.3	116.5	103.2	97.1	119.5	81.0	65.6
NET HEAD (M)		127.6	111.6	114.1	104.9	92.8	87.4	102.2	72.9	59.0
INSTALLED CAPACITY (MW)		70.0	18.7	16.0	19.5	15.1	12.3	19.0	11.9	8.3

9. REMARKS : THIS SITE PROCEEDED TO THE SECOND SCREENING.

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 \*\* INVENTORY OF POTENTIAL SITE FOR THE FIRST SCREENING \*\*  
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1. LOAD CENTER : KAPIT  
 2. POTENTIAL SITE : TEKALIT (S.YEKALIT)  
 3. IDENTIFICATION NO.: 25  
 4. LOCATION : LATITUDE 1 54 0 N LONGITUDE 112 36 0 E  
 NOTE : ABOUT 3.5 KM UPSTREAM FROM THE CONFLUENCE OF THE S.KATIBAS  
 5. DISTANCE FROM LOAD CENTER : 37.0 KM  
 6. TYPE OF DEVELOPMENT : RESERVOIR

7. PROJECT FEATURES

CATCHMENT AREA (SQ.KM) : 518.0  
 MAX. TOPOGRAPHICAL ELEVATION (EL:M) : 61.0  
 MAX. WIDTH OF DAM CREST (M) : 350.0  
 REVERBED ELEVATION AT DAMSITE (EL:M) : 10.0  
 AVERAGE ANNUAL RAINFALL (MM) : 3250.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1490.0  
 AVERAGE ANNUAL RUNOFF (CMS) : 27.0  
 HEADRACE TUNNEL LENGTH (M) : 0.0  
 PENSTOCK TUNNEL LENGTH (M) : 60.0  
 PLANT FACTOR : 0.5  
 DEREGULATION RATE (MM/YR) : 1.0

8. PRELIMINARY POWER OUTPUT CALCULATION

DESCRIPTION	CASE-1	CASE-2	CASE-3	CASE-4	CASE-5	CASE-6	CASE-7	CASE-8	CASE-9
DRAFT RATE (CMS)	0.851	0.795	0.665	0.851	0.795	0.665	0.851	0.785	0.665
FIRM DISCHARGE (CMS)	24.7	22.8	19.3	24.7	22.8	19.3	24.7	22.8	19.3
PEAK DISCHARGE (CMS)	49.4	45.5	38.6	49.4	45.5	38.6	49.4	45.5	38.6
FULL SUPPLY LEVEL (EL:M)	61.0	61.0	61.0	58.7	56.7	54.2	56.4	52.4	47.4
RATED WATER LEVEL (EL:M)	55.0	57.1	58.6	51.8	51.6	50.7	46.9	44.2	40.9
MIN. OPERATION LEVEL (EL:M)	43.0	49.3	53.9	37.9	41.4	43.8	27.8	27.8	27.8
TAIL WATER LEVEL (EL:M)	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
GROSS STORAGE (MCM)	57.5	57.5	57.5	465.3	413.5	352.1	404.0	309.9	218.9
ACTIVE STORAGE (MCM)	363.2	274.0	183.1	368.2	274.0	183.1	368.2	274.0	183.1
SEDIMENT VOLUME (MCM)	23.7	23.7	23.7	23.9	23.9	23.9	23.9	23.9	23.9
POWER GENERATION EFFICIENCY (%)	0.47	0.47	0.32	0.82	0.82	0.82	0.82	0.82	0.82
GROSS HEAD (M)	13.0	45.1	45.5	37.8	39.6	38.7	34.9	32.2	28.9
NET HEAD (M)	33.7	47.6	42.0	35.8	35.6	34.9	31.4	29.0	26.0
INSTALLED CAPACITY (MW)	13.4	14.3	17.0	14.2	13.0	10.8	12.5	10.6	8.1

9. REMARKS :

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 \*\* INVENTORY OF POTENTIAL SITE FOR THE FIRST SCREENING \*\*  
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1. LOAD CENTER : KAPIT
2. POTENTIAL SITE : AYAT (S. AYAT)
3. IDENTIFICATION NO.: 26
4. LOCATION : LATITUDE 1 30 0 N LONGITUDE 112 43 0 E  
 NOTE : ABOUT 100 M DOWNSTREAM FROM THE  
 CONFLUENCE OF THE S-SUNGKABANG
5. DISTANCE FROM LOAD CENTER : 43.9 KM
6. TYPE OF DEVELOPMENT : RESERVOIR

7. PROJECT FEATURES

CATCHMENT AREA (SQ. KM) : 59.0  
 MAX. TOPOGRAPHICAL ELEVATION (ELEM) : 304.8  
 MAX. WIDTH OF DAM CREST (M) : 350.0  
 RIVERBED ELEVATION AT DAMSITE (ELEM) : 244.0  
 AVERAGE ANNUAL RAINFALL (MM) : 4000.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1355.0  
 AVERAGE ANNUAL RUNOFF (CMS) : 5.0  
 HEADRACE TUNNEL LENGTH (M) : 1100.0  
 PENSTOCK TUNNEL LENGTH (M) : 300.0  
 PLANT FACTOR : 9.5  
 DEMURRATION RATE (MM/YR) : 1.0

8. PRELIMINARY POWER OUTPUT CALCULATION

DESCRIPTION	UNIT	CASE-1	CASE-2	CASE-3	CASE-4	CASE-5	CASE-6	CASE-7	CASE-8	CASE-9
DRAFT RATE (L)		0.851	1.178	0.665	0.851	0.795	0.665	0.851	0.785	0.665
FIRM DISCHARGE (CMS)		4.3	3.4	3.3	4.3	3.9	3.3	4.3	3.9	3.3
PEAK DISCHARGE (CMS)		8.5	7.0	6.7	8.5	7.9	6.7	8.5	7.9	6.7
FULL SUPPLY LEVEL (ELEM)		304.8	304.8	304.8	304.4	302.3	299.3	305.9	305.9	293.7
RATED WATER LEVEL (ELEM)		292.5	298.9	301.9	291.0	293.4	293.6	288.9	288.9	282.2
MIN. OPERATION LEVEL (ELEM)		260.0	287.0	286.0	244.2	275.6	282.2	258.9	258.9	258.9
TAIL WATER LEVEL (ELEM)		134.0	134.0	134.0	134.0	134.0	134.0	134.0	134.0	134.0
GROSS STORAGE (MCM)		71.5	71.6	71.6	69.6	59.8	50.1	67.6	51.4	35.7
ACTIVE STORAGE (MCM)		53.5	67.3	31.6	53.5	47.3	31.6	47.3	47.3	31.6
SEDIMENT VOLUME (MCM)		2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
POWER GENERATION EFFICIENCY (%)		9.47	9.32	0.82	0.82	0.82	0.82	0.82	0.82	0.82
GROSS HEAD (M)		162.5	164.9	167.9	157.0	159.4	159.6	154.9	152.1	148.2
NET HEAD (M)		142.7	143.4	141.1	141.3	143.5	143.6	139.4	136.9	133.5
INSTALLED CAPACITY (MW)		9.7	9.4	3.1	9.7	9.1	7.7	9.5	8.7	7.2

9. REMARKS : THIS SITE PROCEEDED TO THE SECOND SCREENING.

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 \*\* INVENTORY OF POTENTIAL SITE FOR THE FIRST SCREENING \*\*  
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1. LOAD CENTER : KAPIT  
 2. POTENTIAL SITE : AYAT (S-AYAT)  
 3. IDENTIFICATION NO.: 26  
 4. LOCATION : LATITUDE 1 38' 0 W LONGITUDE 112 43 0 E  
 NOTE : ABOUT 100 M DOWNSTREAM FROM THE CONFLUENCE OF THE S-SUNGKABANG  
 5. DISTANCE FROM LOAD CENTER : 48.0 KM  
 6. TYPE OF DEVELOPMENT : RUN-OF-RIVER

7. PROJECT FEATURES

CATCHMENT AREA (SQ.KM) : 59.0  
 RIVERBED ELEVATION AT DAMSITE (EL:M) : 244.0  
 AVERAGE ANNUAL RAINFALL (MM) : 4000.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1355.0  
 AVERAGE ANNUAL RUNOFF (CMS) : 5.0  
 HEADRACE TUNNEL LENGTH (M) : 1100.0  
 PENSTOCK TUNNEL LENGTH (M) : 300.0  
 PLANT FACTOR : 0.5

8. PRELIMINARY POWER OUTPUT CALCULATION

FIRM DISCHARGE (CMS) : 1.4  
 DEPENDABLE PEAK DISCHARGE (CMS) : 2.8  
 MAXIMUM TURBINE DISCHARGE (CMS) : 9.3  
 FULL SUPPLY LEVEL (EL:M) : 247.0  
 TAIL WATER LEVEL (EL:M) : 134.0  
 POWER GENERATION EFFICIENCY (%) : 0.82  
 GROSS HEAD (M) : 113.0  
 NET HEAD (M) : 101.7  
 FIRM OUTPUT (MW) : 1.1  
 DEPENDABLE PEAK OUTPUT (MW) : 2.2  
 INSTALLED CAPACITY (MW) : 7.6

9. REMARKS : THIS SITE PROCEED TO THE SECOND SCREENING.

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 \*\* INVENTORY OF POTENTIAL SITE FOR THE FIRST SCREENING \*\*  
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1- LOAD CENTER : KAKIKET  
 2- POTENTIAL SITE : KANORIT (S.KANORIT)  
 3- IDENTIFICATION NO.: 31  
 4- LOCATION : LATITUDE : 11 49 0 N LONGITUDE : 111 56 0 E  
 NOTE : ABOUT 3.0 KM DOWNSTREAM FROM THE  
 CONFLUENCE OF THE S.ENTADAI  
 5- DISTANCE FROM LOAD CENTER : 47.0 KM  
 6- TYPE OF DEVELOPMENT : RESERVOIR

7. PROJECT FEATURES

CATCHMENT AREA (SQ.KM) : 1331.0  
 MAX. TOPOGRAPHICAL ELEVATION (ELT.M) : 51.0  
 MAX. WIDTH OF DAM CREST (M) : 500.0  
 RIVERBED ELEVATION AT DAM SITE (ELT.M) : 20.0  
 AVERAGE ANNUAL RAINFALL (MM) : 3600.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1630.0  
 AVERAGE ANNUAL RUNOFF (CMS) : 90.0  
 HEADRACE TUNNEL LENGTH (M) : 600.0  
 PENSTOCK TUNNEL LENGTH (M) : 100.0  
 PLANT FACTOR (%) : 0.5  
 DERODATION RATE (PERCENT) : 1.0

8. PRELIMINARY POWER OUTPUT CALCULATION

DESCRIPTION	CASE-1	CASE-2	CASE-3	CASE-4	CASE-5	CASE-6	CASE-7	CASE-8	CASE-9
DRAFT RATE (M)	0.712	0.612	0.512	0.712	0.612	0.512	0.712	0.612	0.512
FIRM DISCHARGE (CMS)	54.0	55.0	46.0	64.0	55.0	46.0	64.0	55.0	46.0
PEAK DISCHARGE (CMS)	128.1	110.1	92.1	128.1	110.1	92.1	128.1	110.1	92.1
FUEL SUPPLY LEVEL (ELT.M)	61.0	61.0	61.0	60.4	59.4	51.3	59.7	49.7	41.5
MIN. WATER LEVEL (ELT.M)	40.9	51.2	58.9	49.3	47.5	46.2	48.6	41.9	36.5
MIN. OPERATION LEVEL (ELT.M)	27.0	27.7	45.0	27.0	32.0	36.1	26.4	26.4	26.4
TAIL WATER LEVEL (ELT.M)	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
GROSS STORAGE (MCM)	81.0	116.9	116.9	404.3	794.3	622.9	791.6	591.8	428.9
ACTIVE STORAGE (MCM)	394.0	465.0	482.1	664.9	465.0	302.1	664.9	465.0	302.1
SEDIMENT VOLUME (MCM)	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
POWER GENERATION EFFICIENCY (%)	0.87	0.87	0.82	0.82	0.82	0.82	0.87	0.82	0.82
GROSS HEAD (M)	17.2	31.8	33.9	27.3	25.6	24.2	26.6	19.9	14.5
NET HEAD (M)	25.1	24.1	30.5	24.6	23.0	21.8	23.9	17.9	13.0
INSTALLED CAPACITY (MW)	25.1	24.9	27.0	25.3	20.4	16.1	24.7	15.9	9.6

9. REMARKS : THIS SITE PROPOSED TO BE SECOND SCREENING.

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 \*\* INVENTORY OF POTENTIAL SITE FOR THE FIRST SCREENING \*\*  
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1. LOAD CENTER : SARIKEI  
 2. POTENTIAL SITE : SARI-I (S-JULAU)  
 3. IDENTIFICATION NO.: 32  
 4. LOCATION : LATITUDE 1 52 0 N LONGITUDE 111 40 0 E  
 NOTE : ABOUT 200 M DOWNSTREAM FROM THE CONFLUENCE OF THE S-LIUM  
 5. DISTANCE FROM LOAD CENTER : 17.0 KM  
 6. TYPE OF DEVELOPMENT : RESERVOIR

7. PROJECT FEATURES

CATCHMENT AREA (SQ-KM) : 160.0  
 MAX. TOPOGRAPHICAL ELEVATION (EL:M) : 61.0  
 MAX. WIDTH OF DAM CREST (M) : 750.0  
 RIVERSED ELEVATION AT DAMSITE (EL:M) : 30.5  
 AVERAGE ANNUAL RAINFALL (MM) : 3400.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1480.0  
 AVERAGE ANNUAL RUNOFF (CMS) : 9.0  
 HEADRACE TUNNEL LENGTH (M) : 0.0  
 PENSTOCK TUNNEL LENGTH (M) : 20.0  
 PLANT FACTOR : 0.5  
 DEMURGATION RATE (MM/YR) : 1.0

8. PRELIMINARY POWER OUTPUT CALCULATION

DESCRIPTION	UNIT	CASE-1	CASE-2	CASE-3	CASE-4	CASE-5	CASE-6	CASE-7	CASE-8	CASE-9
DRAFT RATE (IS)		0.851	0.795	0.665	0.851	0.785	0.665	0.851	0.785	0.665
FIRM DISCHARGE (CMS)		7.7	7.1	6.0	7.7	7.1	6.0	7.7	7.1	6.0
PEAK DISCHARGE (CMS)		15.3	14.1	12.0	15.3	14.1	12.0	15.3	14.1	12.0
FULL SUPPLY LEVEL (EL:M)		61.0	61.0	61.0	56.4	53.3	52.2	47.8	45.6	43.4
RATED WATER LEVEL (EL:M)		59.1	59.6	50.1	52.1	51.6	51.1	44.2	42.8	41.3
MIN. OPERATION LEVEL (EL:M)		55.2	56.8	58.2	47.5	48.3	48.8	37.1	37.1	37.1
TAIL WATER LEVEL (EL:M)		31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
GROSS STORAGE (MCM)		179.2	378.2	378.2	248.7	229.1	209.0	137.3	108.0	79.8
ACTIVE STORAGE (MCM)		114.2	85.1	59.8	114.3	65.1	56.8	114.3	85.1	56.8
SEDIMENT VOLUME (MCM)		9.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
POWER GENERATION EFFICIENCY (%)		0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
GROSS HEAD (M)		28.1	28.6	29.1	21.1	20.6	20.1	13.2	11.8	10.3
NET HEAD (M)		25.3	25.7	26.2	19.0	18.6	18.1	11.9	10.6	9.3
INSTALLED CAPACITY (MW)		3.1	2.9	2.5	2.3	2.1	1.7	1.5	1.2	0.9

9. REMARKS : THIS SITE IS IDENTIFIED BY JICA PRELIMINARY STUDY TEAM.

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 \*\* INVENTORY OF POTENTIAL SITE FOR THE FIRST SCREENING \*\*  
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1. LOAD CENTER : SARIKEI  
 2. POTENTIAL SITE : SARI-2 (S.SARIKEI)  
 3. IDENTIFICATION NO.: 33  
 4. LOCATION : LATITUDE : 1 59 0 N LONGITUDE 111 32 0 E  
 NOTE : ABOUT 600 M DOWNSTREAM FROM THE CONFLUENCE OF THE S-GERUGU  
 5. DISTANCE FROM LOAD CENTER : 32.0 KM  
 6. TYPE OF DEVELOPMENT : RESERVOIR

7. PROJECT FEATURES

CATCHMENT AREA (SQ.KM) : 30.0  
 MAX. TOPOGRAPHICAL ELEVATION (EL:M) : 30.5  
 MAX. WIDTH OF DAM CREST (M) : 250.0  
 RIVERBED ELEVATION AT DAMSITE (EL:M) : 15.2  
 AVERAGE ANNUAL RAINFALL (MM) : 3300.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1480.0  
 AVERAGE ANNUAL RUNOFF (CMS) : 2.0  
 HEADRACE TUNNEL LENGTH (M) : 9.0  
 PENSTOCK TUNNEL LENGTH (M) : 40.0  
 PLANT FACTOR : 0.5  
 DENUDATION RATE (MM/YR) : 1.0

8. PRELIMINARY POWER OUTPUT CALCULATION

DESCRIPTION	CASE-1	CASE-2	CASE-3	CASE-4	CASE-5	CASE-6	CASE-7	CASE-8	CASE-9
DRAFT RATE (C)	0.851	0.755	0.665	0.851	0.785	0.665	0.851	0.785	0.665
FIRM DISCHARGE (CMS)	1.7	1.6	1.3	1.7	1.6	1.3	1.7	1.6	1.3
PEAK DISCHARGE (CMS)	3.4	3.1	2.7	3.4	3.1	2.7	3.4	3.1	2.7
FULL SUPPLY LEVEL (EL:M)	30.5	30.5	30.5	29.8	29.1	28.3	29.0	27.7	26.0
RATED WATER LEVEL (EL:M)	28.5	29.2	29.7	27.6	27.4	27.1	26.3	25.4	24.3
MIN. OPERATION LEVEL (EL:M)	24.6	25.6	25.2	23.1	24.1	24.8	20.9	20.9	20.9
TAIL WATER LEVEL (EL:M)	15.0	15.0	15.0	14.0	14.0	14.0	16.0	16.0	16.0
GROSS STORAGE (MCM)	17.5	17.5	17.5	13.3	13.3	13.3	13.3	13.3	13.3
ACTIVE STORAGE (MCM)	75.4	10.0	10.0	20.4	18.9	12.6	25.4	18.9	12.6
SEDIMENT VOLUME (MCM)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
POWER GENERATION EFFICIENCY (%)	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
GROSS HEAD (M)	12.5	13.2	13.7	11.6	11.4	11.1	10.3	9.4	8.3
NET HEAD (M)	11.3	11.9	12.4	10.4	10.3	10.0	9.3	8.5	7.5
INSTALLED CAPACITY (MW)	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2

9. REMARKS : THIS SITE IS IDENTIFIED BY JICA PRELIMINARY STUDY TEAM.

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 \*\* INVENTORY OF POTENTIAL SITE FOR THE FIRST SCREENING \*\*  
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1. LOAD CENTER : SRY AMAN  
 2. POTENTIAL SITE : SRIA-1 (B-LUPAR)  
 3. IDENTIFICATION NO.: 41  
 4. LOCATION : LATITUDE : 1 5 0 N LONGITUDE : 111 43 0 E  
 NOTE : ABOUT 1-5 KM DOWNSTREAM FROM THE CONFLUENCE OF THE S.AP  
 5. DISTANCE FROM LOAD CENTER : 32.0 KM  
 6. TYPE OF DEVELOPMENT : RESERVOIR

7. PROJECT FEATURES

CATCHMENT AREA	(SQ.KM) :	65.0
MAX. TOPOGRAPHICAL ELEVATION	(EL.M) :	91.4
MAX. WIDTH OF DAM CREST	(M) :	600.0
RIVERBED ELEVATION AT DAMSITE	(EL.M) :	27.4
AVERAGE ANNUAL RAINFALL	(MM) :	3300.0
AVERAGE ANNUAL EVAPORATION	(MM) :	1480.0
AVERAGE ANNUAL RUNOFF	(CMS) :	4.0
HEADRACE TUNNEL LENGTH	(M) :	0.0
PENSTOCK TUNNEL LENGTH	(M) :	80.0
PLANT FACTOR	:	0.5
DESNUDATION RATE	(MM/YR) :	1.0

8. PRELIMINARY POWER OUTPUT CALCULATION

DESCRIPTION	UNIT	CASE-1	CASE-2	CASE-3	CASE-4	CASE-5	CASE-6	CASE-7	CASE-8	CASE-9
DRAFT RATE	(%)	0.851	0.785	0.665	0.851	0.785	0.665	0.851	0.785	0.665
FIRM DISCHARGE	(CMS)	3.4	3.1	2.7	3.4	3.1	2.7	3.4	3.1	2.7
PEAK DISCHARGE	(CMS)	6.8	6.3	5.3	6.8	6.3	5.3	6.8	6.3	5.3
FULL SUPPLY LEVEL	(EL.M)	91.4	91.4	91.4	68.2	67.1	65.1	65.1	65.1	65.1
RATED WATER LEVEL	(EL.M)	90.7	90.9	91.1	67.0	66.3	64.1	64.1	64.1	64.1
MIN. OPERATION LEVEL	(EL.M)	89.4	89.4	90.4	64.7	64.6	64.0	64.0	64.0	64.0
TAIL WATER LEVEL	(EL.M)	28.0	28.0	28.0	24.0	28.0	28.0	28.0	28.0	28.0
GROSS STORAGE	(MCM)	774.4	774.4	774.4	316.5	301.5	280.6	280.6	280.6	280.6
ACTIVE STORAGE	(MCM)	50.8	37.8	25.3	50.8	37.8	25.3	25.3	25.3	25.3
SEDIMENT VOLUME	(MCM)	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
POWER GENERATION EFFICIENCY	(%)	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
GROSS HEAD	(M)	62.7	62.9	63.1	39.0	38.3	37.1	37.1	37.1	37.1
NET HEAD	(M)	56.5	56.6	56.8	35.1	34.4	33.4	33.4	33.4	33.4
INSTALLED CAPACITY	(MW)	3.1	2.9	2.4	1.9	1.7	1.4	1.4	1.4	1.4

9. REMARKS : THIS SITE IS IDENTIFIED BY JICA PRELIMINARY STUDY TEAM.

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 INVENTORY OF POTENTIAL SITE FOR THE FIRST SCREENING  
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1. LOAD CENTER : SRI AMAM  
 2. POTENTIAL SITE : SRIA-2 (D.UNDUP)  
 3. IDENTIFICATION NO.: 42  
 4. LOCATION : LATITUDE : 1 1 0 N LONGITUDE 111 33 0 E  
 NOTE : ABOUT 100 M DOWNSTREAM FROM THE CONFLUENCE OF THE S-ENTERBAR  
 5. DISTANCE FROM LOAD CENTER : 24.0 KM  
 6. TYPE OF DEVELOPMENT : RUN-OF-RIVER

7. PROJECT FEATURES

CATCHMENT AREA (SQ.KM) : 90.0  
 RIVERBED ELEVATION AT DAMSITE (EL:M) : 45.0  
 AVERAGE ANNUAL RAINFALL (MM) : 3500.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1470.0  
 AVERAGE ANNUAL RUNOFF (CMS) : 6.0  
 HEADRAGE TUNNEL LENGTH (M) : 30.0  
 PENSTOCK TUNNEL LENGTH (M) : 20.0  
 PLANT FACTOR : 0.5

8. PRELIMINARY POWER OUTPUT CALCULATION

FIRM DISCHARGE (CMS) : 1.7  
 DEPENDABLE PEAK DISCHARGE (CMS) : 3.4  
 MAXIMUM TURBINE DISCHARGE (CMS) : 11.2  
 FULL SUPPLY LEVEL (EL:M) : 48.0  
 TAIL WATER LEVEL (EL:M) : 45.0  
 POWER GENERATION EFFICIENCY : 0.82  
 GROSS HEAD (M) : 3.0  
 NET HEAD (M) : 2.7  
 FIRM OUTPUT (MW) : 0.0  
 DEPENDABLE PEAK OUTPUT (MW) : 0.1  
 INSTALLED CAPACITY (MW) : 0.2

9. REMARKS : THIS SITE IS IDENTIFIED BY JICA PRELIMINARY STUDY

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 \*\* INVENTORY OF POTENTIAL SITE FOR THE FIRST SCREENING \*\*  
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1. LOAD CENTER : SRI AMAN  
 2. POTENTIAL SITE : SEKURANG-1 (B. SEKURANG)  
 3. IDENTIFICATION NO.: 43  
 4. LOCATION : LATITUDE : 1 21 0 N LONGITUDE : 111 43 0 E  
 NOTE : ABOUT 2.0 KM UPSTREAM FROM THE  
 CONFLUENCE OF THE S-TEBAT

5. DISTANCE FROM LOAD CENTER : RESERVOIR  
 30.0 KM  
 6. TYPE OF DEVELOPMENT : RESERVOIR  
 7. PROJECT FEATURES  
 CATCHMENT AREA (SQ. KM) : 508.0  
 MAX. TOPOGRAPHICAL ELEVATION (EL. (M)) : 61.0  
 MAX. WIDTH OF DAM CREST (M) : 240.0  
 RIVERBED ELEVATION AT DAMSITE (EL. (M)) : 22.0  
 AVERAGE ANNUAL RAINFALL (MM) : 3400.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1480.0  
 AVERAGE ANNUAL RUNOFF (CMS) : 31.0  
 HEADRAGE TUNNEL LENGTH (M) : 0.0  
 PENSTOCK TUNNEL LENGTH (M) : 60.0  
 PLANT FACTOR : 0.5  
 DEMURDATION RATE (MM/YR) : 1.0

8. PRELIMINARY POWER OUTPUT CALCULATION

DESCRIPTION	UNIT	CASE-1	CASE-2	CASE-3	CASE-4	CASE-5	CASE-6	CASE-7	CASE-8	CASE-9
DRAFT RATE (L/S)		0.793	0.693	0.593	0.793	0.693	0.593	0.793	0.693	0.593
PIAK DISCHARGE (CMS)		24.6	21.5	18.4	24.6	21.5	18.4	24.6	21.5	18.4
PEAK DISCHARGE (CMS)		43.0	43.0	36.8	49.2	43.0	36.8	49.2	43.0	36.8
FULL SUPPLY LEVEL (EL. (M))		53.0	53.0	51.0	60.8	59.7	58.6	60.7	58.3	55.9
RATED WATER LEVEL (EL. (M))		57.9	57.9	59.6	53.9	55.5	55.5	53.3	51.7	50.1
MIN. OPERATION LEVEL (EL. (M))		41.8	41.8	56.9	40.0	47.0	49.6	38.6	38.6	38.6
TAIL WATER LEVEL (EL. (M))		24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
GROSS STORAGE (MCM)		349.9	349.9	349.9	344.2	301.4	256.4	338.5	252.9	187.2
ACTIVE STORAGE (MCM)		300.2	300.2	300.2	300.2	214.5	148.9	300.2	214.5	148.9
SEDIMENT VOLUME (MCM)		25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
POWER GENERATION EFFICIENCY (%)		0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
GROSS HEAD (M)		30.5	33.9	35.6	29.9	31.5	31.5	29.3	27.7	26.1
NET HEAD (M)		27.4	30.5	32.1	26.9	28.3	28.3	26.4	25.0	23.5
INSTALLED CAPACITY (MW)		10.8	10.6	9.5	10.6	9.8	8.4	10.4	8.6	7.0

9. REMARKS : THIS SITE PROCEEDED TO THE SECOND SCREENING.

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 \*\* INVENTORY OF POTENTIAL SITE FOR THE FIRST SCREENING \*\*  
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1. LOAD CENTER : SRT APAN  
 2. POTENTIAL SITE : SEKURANG-2 (U-SERKANG)  
 3. IDENTIFICATION NO.: 46  
 4. LOCATION : LATITUDE 1 27 0 N LONGITUDE 111 46 0 E  
 NOTE : ABOUT 100 M DOWNSTREAM FROM THE CONFLUENCE OF THE S-SEMAN  
 5. DISTANCE FROM LOAD CENTER : 45.0 KM  
 6. TYPE OF DEVELOPMENT : RESERVOIR

7. PROJECT FEATURES

CATCHMENT AREA (SQ.KM) : 360.0  
 MAX. TOPOGRAPHICAL ELEVATION (EL:M) : 182.9  
 MAX. WIDTH OF DAM CREST (M) : 550.0  
 RIVERBED ELEVATION AT DAM SITE (EL:M) : 70.0  
 AVERAGE ANNUAL RAINFALL (MM) : 3400.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1450.0  
 AVERAGE ANNUAL RUNOFF (CMS) : 22.0  
 HEADRACE TUNNEL LENGTH (M) : 0.0  
 PENSTOCK TUNNEL LENGTH (M) : 110.0  
 PLANT FACTOR : 0.5  
 DENUDATION RATE (M/YR) : 1.0

8. PRELIMINARY POWER OUTPUT CALCULATION

DESCRIPTION	UNIT	CASE-1	CASE-2	CASE-3	CASE-4	CASE-5	CASE-6	CASE-7	CASE-8	CASE-9
DRAFT RATE (C)		0.851	0.785	0.665	0.851	0.795	0.665	0.851	0.785	0.665
FIRM DISCHARGE (CMS)		18.7	17.3	14.6	18.7	17.3	14.6	18.7	17.3	14.6
PEAK DISCHARGE (CMS)		37.4	34.5	29.3	37.4	34.5	29.3	37.4	34.5	29.3
HEAD SUPPLY LEVEL (EL:M)		182.9	182.9	182.9	160.5	157.0	150.5	136.0	131.0	124.1
TAIL WATER LEVEL (EL:M)		170.7	180.5	191.1	155.6	151.1	150.7	124.3	119.7	115.1
MIN. OPERATION LEVEL (EL:M)		173.2	175.7	175.1	143.8	143.4	143.0	97.0	97.0	97.0
TAIL WATER LEVEL (EL:M)		72.0	72.0	77.0	72.0	72.0	72.0	72.0	72.0	72.0
GROSS STORAGE (MCM)		1290.0	1290.0	1290.0	702.4	625.1	549.1	303.3	231.9	162.9
ACTIVE STORAGE (MCM)		279.3	207.9	108.9	279.5	207.9	136.9	279.3	207.9	138.9
SEDIMENT VOLUME (MCM)		18.0	13.0	0.0	13.0	14.0	10.0	18.0	18.0	18.0
POWER GENERATION EFFICIENCY (%)		9.42	9.22	9.82	9.82	9.82	9.82	9.82	9.82	9.82
GROSS HEAD (M)		107.7	103.5	109.4	83.6	81.1	78.7	52.3	47.7	43.1
NET HEAD (M)		96.9	97.7	94.4	73.2	73.0	70.8	47.1	42.9	38.8
INSTALLED CAPACITY (MW)		27.1	27.1	23.2	22.6	20.2	16.7	14.2	11.9	9.1

9. REMARKS : THIS SITE PROCEEDED TO THE SECOND SCREENING.

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 \*\* INVENTORY OF POTENTIAL SITES FOR THE FIRST SCREENING \*\*  
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1. LOAD CENTER : SPI AMAN  
 2. POTENTIAL SITE : LEYANAK (B-LEMANAK)  
 3. IDENTIFICATION NO.: 45  
 4. LOCATION : LATITUDE 1 19 0 N LONGITUDE 119 49 0 E

5. DISTANCE FROM LOAD CENTER : 41.0 KM  
 6. TYPE OF DEVELOPMENT : RESERVOIR  
 NOTE : ABOUT 300 M UPSTREAM FROM THE CONFLUENCE OF THE S-UCHONG

7. PROJECT FEATURES

CATCHMENT AREA (SQ. KM) : 184.0  
 MAX. TOPOGRAPHICAL ELEVATION (EL: M) : 152.4  
 MAX. WIDTH OF DAM CREST (M) : 380.0  
 REVERSED ELEVATION AT DAMSITE (EL: M) : 70.0  
 AVERAGE ANNUAL RAINFALL (MM) : 3400.0  
 AVERAGE ANNUAL EVAPORATION (MM) : 1450.0  
 AVERAGE ANNUAL RUNOFF (CMS) : 11.0  
 HEADRACE TUNNEL LENGTH (M) : 80.0  
 PLUM STOCK TUNNEL LENGTH (M) : 0.0  
 PLAIN FACTOR : 0.5  
 DEREGULATION RATE (MM/YR) : 1.0

8. PRELIMINARY POWER OUTPUT CALCULATION

DESCRIPTION	UNIT	CASE-1	CASE-2	CASE-3	CASE-4	CASE-5	CASE-6	CASE-7	CASE-8	CASE-9
DRAFT RATE (CMS)	(CMS)	0.851	0.785	0.665	0.851	0.785	0.665	0.851	0.785	0.665
FIRM DISCHARGE (CMS)	(CMS)	9.4	8.6	7.3	9.4	8.6	7.3	9.4	8.6	7.3
PEAK DISCHARGE (CMS)	(CMS)	18.7	17.3	14.6	18.7	17.3	14.6	18.7	17.3	14.6
FULL SUPPLY LEVEL (EL: M)	(EL: M)	152.4	152.4	152.4	141.0	138.2	134.5	129.6	124.0	116.7
RATED WATER LEVEL (EL: M)	(EL: M)	150.1	150.8	151.3	135.4	133.8	131.2	119.3	115.6	110.7
MIN. OPERATING LEVEL (EL: M)	(EL: M)	145.0	147.5	149.1	124.2	125.0	124.7	93.8	98.8	98.8
TAIL WATER LEVEL (EL: M)	(EL: M)	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GROSS STORAGE (MCM)	(MCM)	654.3	454.3	454.3	259.6	229.9	192.7	154.8	119.1	84.6
ACTIVE STORAGE (MCM)	(MCM)	139.6	103.9	69.4	139.5	103.9	69.4	139.5	103.9	69.4
SEDIMENT VOLUME (MCM)	(MCM)	9.7	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
POWER GENERATION EFFICIENCY (%)	(%)	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
GROSS HEAD (M)	(M)	77.1	79.8	80.3	64.4	62.8	60.2	48.3	44.6	39.7
NET HEAD (M)	(M)	71.2	71.8	72.3	58.0	56.5	54.2	43.5	40.1	35.8
INSTALLED CAPACITY (MW)	(MW)	10.7	10.0	8.5	8.7	7.9	6.4	6.5	5.6	4.2

9. REMARKS :

