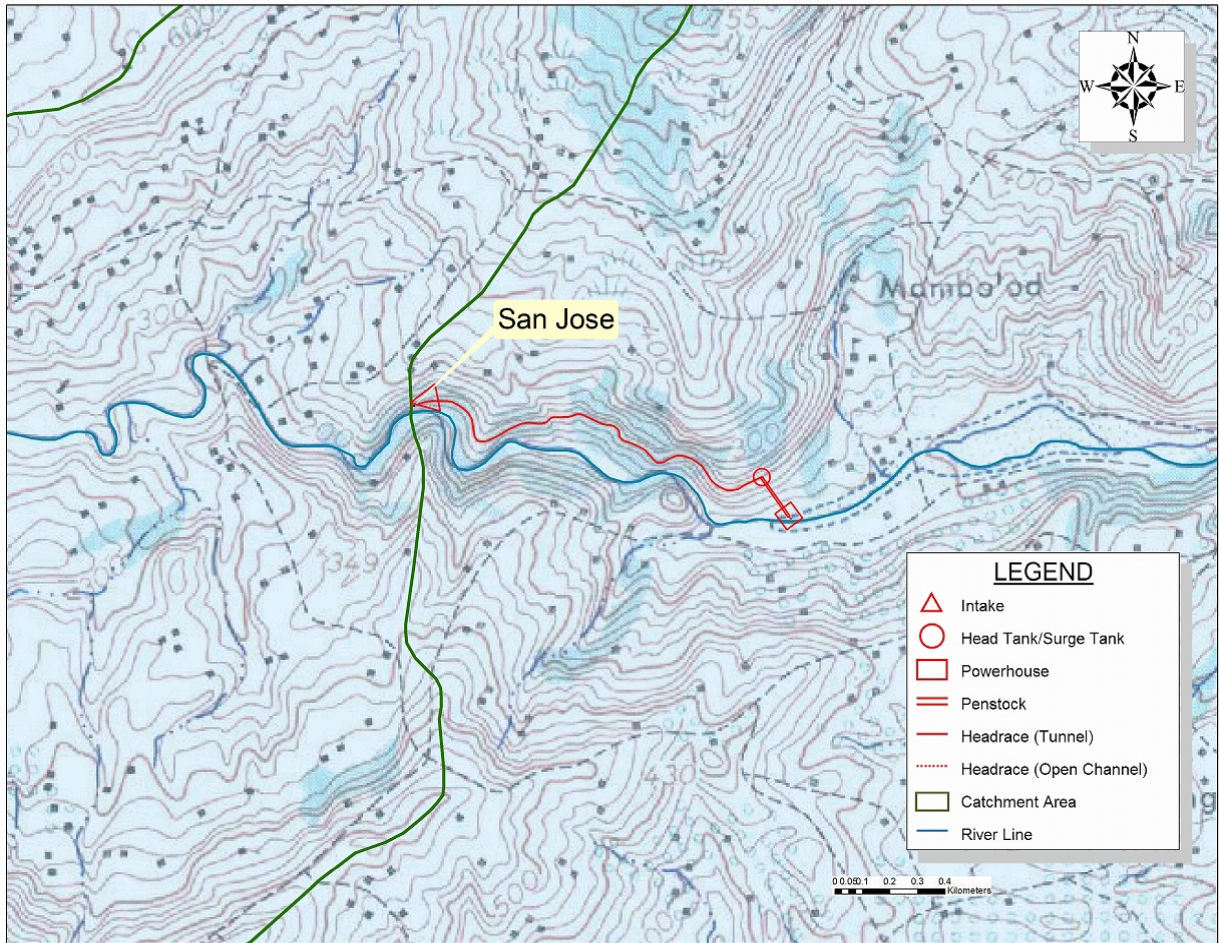


PROJECT NAME San Jose



LOCATION

Island	Negros
Region	CENTRAL VISAYAS
Province	NEGROS ORIENTAL
Municipality	JIMALALUD

RIVER

River Basin	San Jose
River	San Jose

RESERVOIR

Reservoir Volume	-	Mil m ³
Effective Volume	-	Mil m ³
High Water Level	-	m

Coordinate

	Latitude	Longitude
Weir/Dam	10°2'10"	123°10'14"
Intake1	-	-
Intake2	-	-
Powerhouse	10°1'56"	123°10'58"

Remark

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POWER GENERATION PLAN

Max Output	1.20 MW
Power Generation Type	Run of River
Annual Power Generation	6.113 GWh
Plant Factor	55%
Catchment Area	28.50 km ²
Maximum Discharge	2.08 m ³ /s
Gross Head	81.00 m
Effective Head	73.40 m
Intake Water Level	204.00 m
Tailrace Water level	123.00 m

PROJECT EVALUATION

Construction Cost	6.68 Mil USD 288.67 Mil PHP
Unit Cost / kW	5,551 USD 239,792 PHP
Unit Cost / kWh	1.03 USD 44.30 PHP
EIRR	7.0%
FIRR	3.9%

*1USD =43.2PHP (03/2012)

CIVIL WORKS

Main Weir	Height	2.5 m
	Crest Length	22.0 m
Headrace	Open Channel	1,500.0 m
	Tunnel	- m
Penstock		170.0 m
Tailrace		10.0 m
Access Road		4.4 km

EM / TL WORKS

Turbine	Type	Francis
	Number of Unit	two unit
Transmission	Line Voltage	- kV
	Length	0.8 km

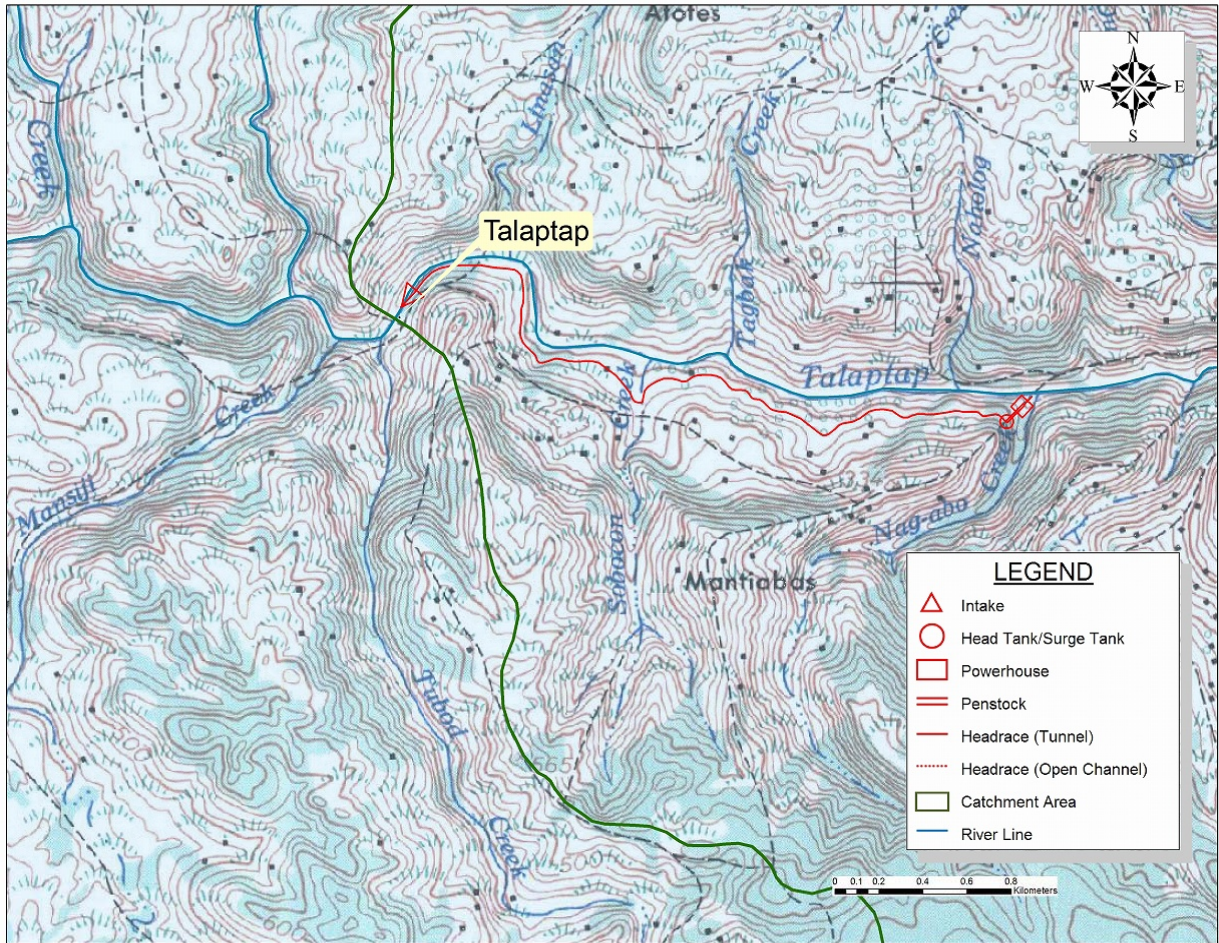
ENVIRONMENT ISSUE

Protected Area	-
Volcano	-

PROJECT STUDY

Study	Type	Map Study Site Reconnaissance
	Date	2012
	Sponsor	JICA

PROJECT NAME Talaptap



LOCATION

Island	Negros
Region	CENTRAL VISAYAS
Province	NEGROS ORIENTAL
Municipality	BINDOY (PAYABON)

RIVER

River Basin	Payabon
River	Talaptap

RESERVOIR

Reservoir Volume	-	Mil m ³
Effective Volume	-	Mil m ³
High Water Level	-	m

Coordinate

	Latitude	Longitude
Weir/Dam	9°44'51"	123°3'51"
Intake1	-	-
Intake2	-	-
Powerhouse	9°44'38"	123°5'23"

Remark

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POWER GENERATION PLAN

Max Output	1.20 MW
Power Generation Type	Run of River
Annual Power Generation	9.363 GWh
Plant Factor	85%
Catchment Area	81.96 km ²
Maximum Discharge	2.40 m ³ /s
Gross Head	75.00 m
Effective Head	65.91 m
Intake Water Level	199.00 m
Tailrace Water level	124.00 m

PROJECT EVALUATION

Construction Cost	11.66 Mil USD 503.78 Mil PHP
Unit Cost / kW	6,824 USD 294,814 PHP
Unit Cost / kWh	0.81 USD 35.21 PHP
EIRR	9.7%
FIRR	6.2%

*1USD =43.2PHP (03/2012)

CIVIL WORKS

Main Weir	Height	4.0 m
	Crest Length	35.0 m
Headrace	Open Channel	3,000.0 m
	Tunnel	- m
Penstock		170.0 m
Tailrace		10.0 m
Access Road		3.7 km

EM / TL WORKS

Turbine	Type	Francis
	Number of Unit	one unit
Transmission	Line Voltage	- kV
	Length	2.6 km

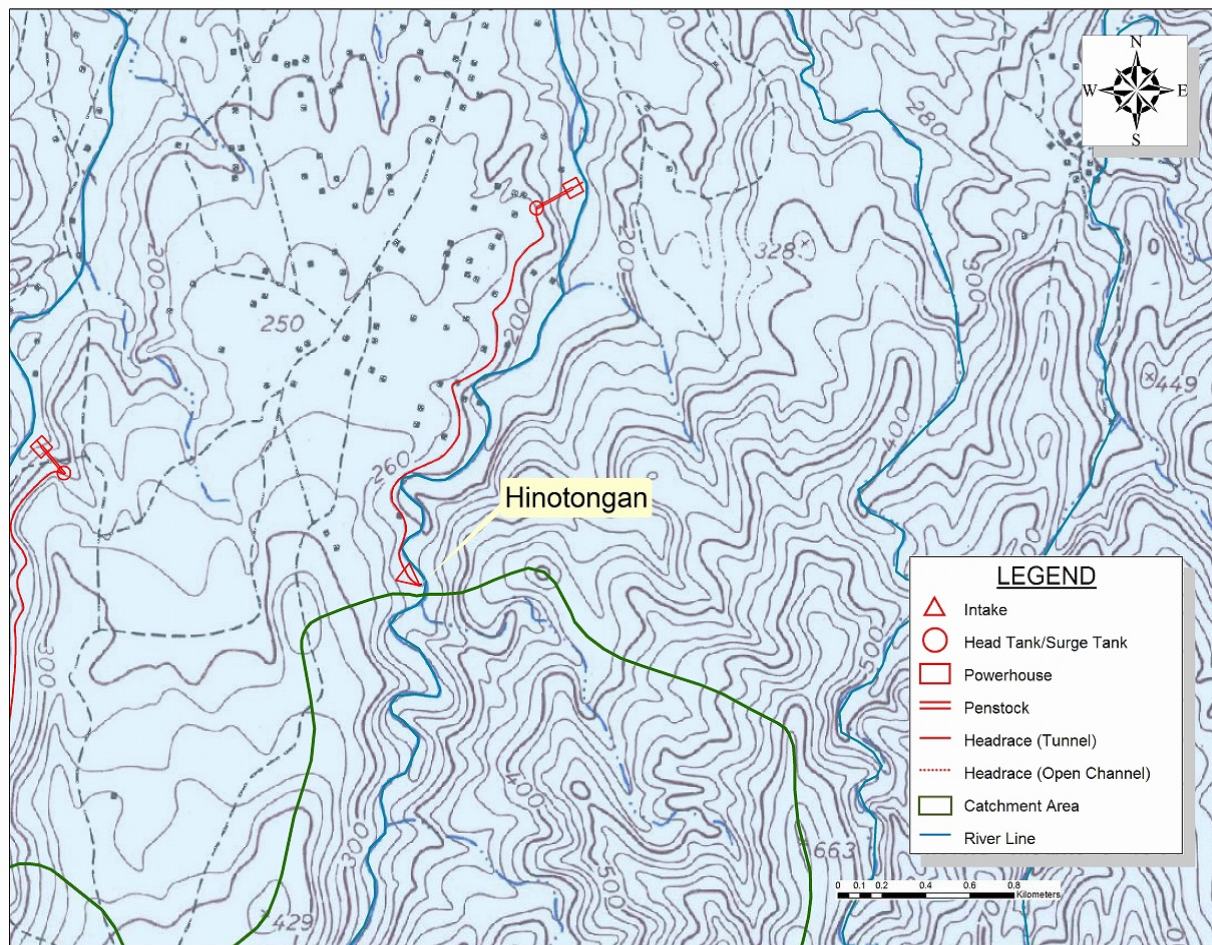
ENVIRONMENT ISSUE

Protected Area	-
Volcano	-

PROJECT STUDY

Study	Type	Map Study Site Reconnaissance
	Date	2012
	Sponsor	JICA

PROJECT NAME Hinotongan



LOCATION

Island	Negros
Region	CENTRAL VISAYAS
Province	NEGROS ORIENTAL
Municipality	SIBULAN

RIVER

River Basin	Tanjay
River	Hinotongan

RESERVOIR

Reservoir Volume	-	Mil m ³
Effective Volume	-	Mil m ³
High Water Level	-	m

Coordinate

	Latitude	Longitude
Weir/Dam	9°23'22"	123°4'60"
Intake1	-	-
Intake2	-	-
Powerhouse	9°24'18"	123°5'21"

Remark

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POWER GENERATION PLAN

Max Output	1.70 MW
Power Generation Type	Run of River
Annual Power Generation	9.475 GWh
Plant Factor	60%
Catchment Area	36.03 km ²
Maximum Discharge	3.85 m ³ /s
Gross Head	62.00 m
Effective Head	54.45 m
Intake Water Level	220.00 m
Tailrace Water level	158.00 m

PROJECT EVALUATION

Construction Cost	8.18 Mil USD 353.19 Mil PHP
Unit Cost / kW	5,381 USD 232,453 PHP
Unit Cost / kWh	0.89 USD 38.24 PHP
EIRR	8.7%
FIRR	4.9%

*1USD =43.2PHP (03/2012)

CIVIL WORKS

Main Weir	Height	5.0 m
	Crest Length	35.0 m
Headrace	Open Channel	1,890.0 m
	Tunnel	- m
Penstock		180.0 m
Tailrace		50.0 m
Access Road		0.0 km

EM / TL WORKS

Turbine	Type	Cross Flow
	Number of Unit	one unit
Transmission	Line Voltage	- kV
	Length	0.1 km

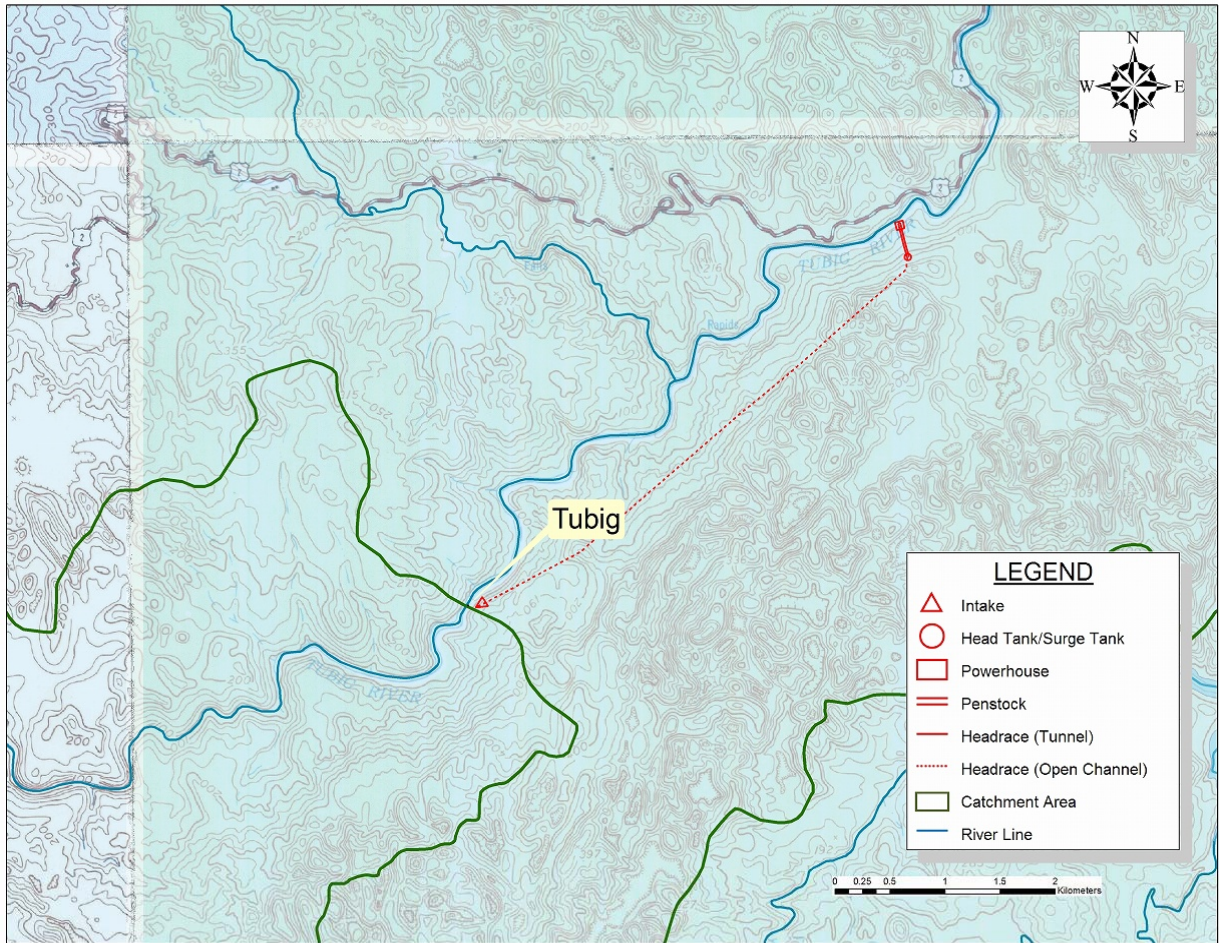
ENVIRONMENT ISSUE

Protected Area	-
Volcano	-

PROJECT STUDY

Study	Type	Map Study Site Reconnaissance
	Date	2012
	Sponsor	JICA

PROJECT NAME Tubig



LOCATION

Island	Samar
Region	EASTERN VISAYAS
Province	EASTERN SAMAR
Municipality	TAFT

RIVER

River Basin	Taft
River	Tubig

RESERVOIR

Reservoir Volume	-	Mil m ³
Effective Volume	-	Mil m ³
High Water Level	-	m

Coordinate

	Latitude	Longitude
Weir/Dam	11°47'40"	125°16'46"
Intake1	-	-
Intake2	-	-
Powerhouse	11°49'29"	125°18'53"

Remark

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POWER GENERATION PLAN

Max Output	20.20 MW
Power Generation Type	Run of River
Annual Power Generation	101.921 GWh
Plant Factor	55%
Catchment Area	126.86 km ²
Maximum Discharge	27.39 m ³ /s
Gross Head	101.00 m
Effective Head	87.93 m
Intake Water Level	120.00 m
Tailrace Water level	19.00 m

PROJECT EVALUATION

Construction Cost	44.87 Mil USD 1,938.47 Mil PHP
Unit Cost / kW	1,476 USD 63,779 PHP
Unit Cost / kWh	0.51 USD 22.25 PHP
EIRR	21.3%
FIRR	13.0%

*1USD =43.2PHP (03/2012)

CIVIL WORKS

Main Weir	Height	10.0 m
	Crest Length	93.0 m
Headrace	Open Channel	6,600.0 m
	Tunnel	- m
Penstock		260.0 m
Tailrace		10.0 m
Access Road		0.0 km

EM / TL WORKS

Turbine	Type	Francis
	Number of Unit	two unit
Transmission	Line Voltage	- kV
	Length	2.8 km

ENVIRONMENT ISSUE

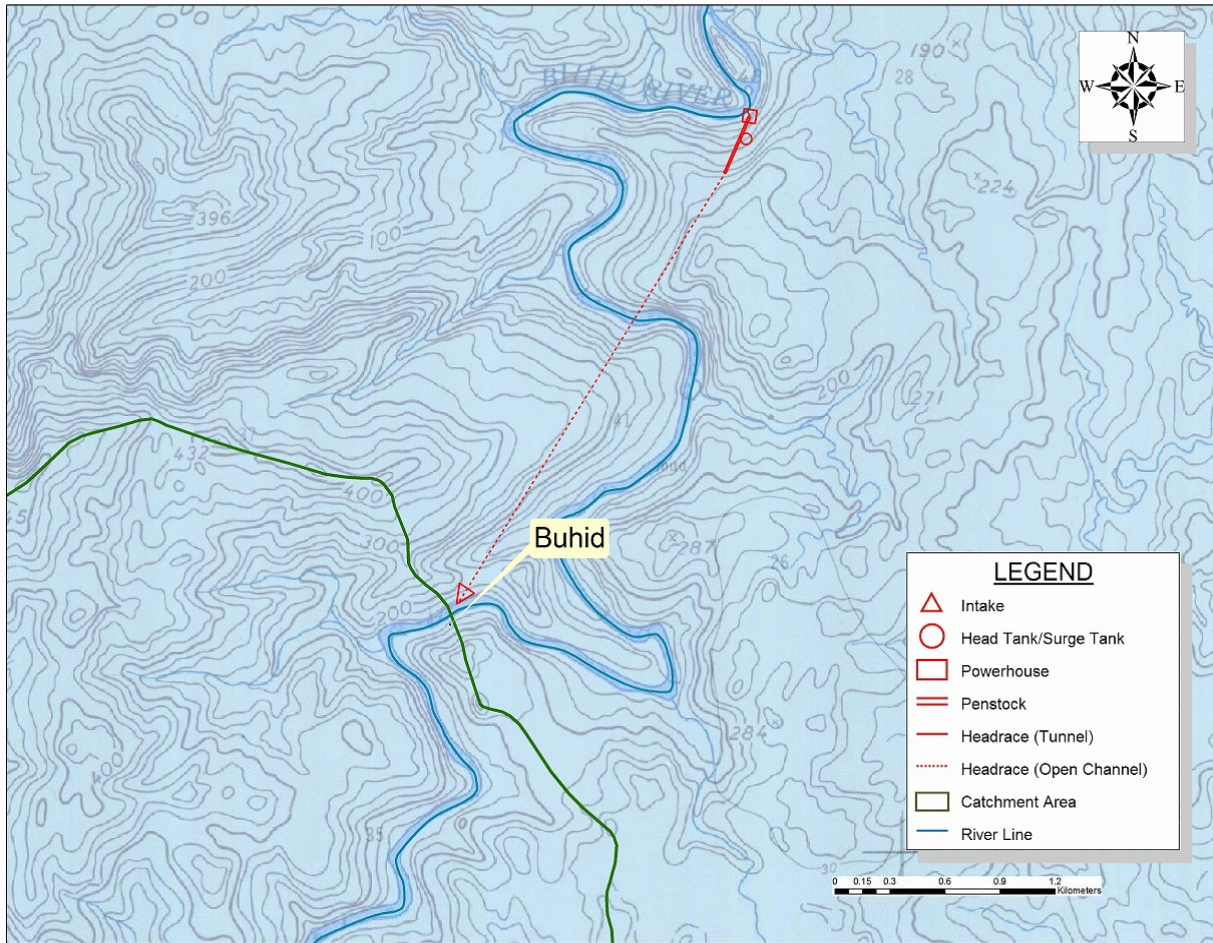
Protected Area	Samar Island Natural Park
Volcano	-

PROJECT STUDY

Study	Type	Map Study Site Reconnaissance
	Date	2012
	Sponsor	JICA

JICA POTENTIAL SITE WITH SITE RECONNAISSANCE (29 / 47)

PROJECT NAME Buhid



LOCATION

Island	Samar
Region	EASTERN VISAYAS
Province	EASTERN SAMAR
Municipality	MAYDOLONG

RIVER

River Basin	Suribao
River	Buhid

RESERVOIR

Reservoir Volume	-	Mil m ³
Effective Volume	-	Mil m ³
High Water Level	-	m

Coordinate

	Latitude	Longitude
Weir/Dam	11'25'36"	125'18'44"
Intake1	-	-
Intake2	-	-
Powerhouse	11'25'40"	125'18'46"

Remark

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POWER GENERATION PLAN

Max Output	20.20 MW
Power Generation Type	Run of River
Annual Power Generation	120.333 GWh
Plant Factor	65%
Catchment Area	160.77 km ²
Maximum Discharge	26.17 m ³ /s
Gross Head	102.00 m
Effective Head	92.22 m
Intake Water Level	139.00 m
Tailrace Water level	37.00 m

PROJECT EVALUATION

Construction Cost	50.21 Mil USD 2,169.07 Mil PHP
Unit Cost / kW	1,515 USD 65,465 PHP
Unit Cost / kWh	0.38 USD 16.28 PHP
EIRR	32.0%
FIRR	19.9%

*1USD =43.2PHP (03/2012)

CIVIL WORKS

Main Weir	Height	7.0 m
	Crest Length	10.0 m
Headrace	Open Channel	- m
	Tunnel	- m
Penstock		310.0 m
Tailrace		3,100.0 m
Access Road		12.0 km

EM / TL WORKS

Turbine	Type	Francis
	Number of Unit	two unit
Transmission	Line Voltage	- kV
	Length	16.1 km

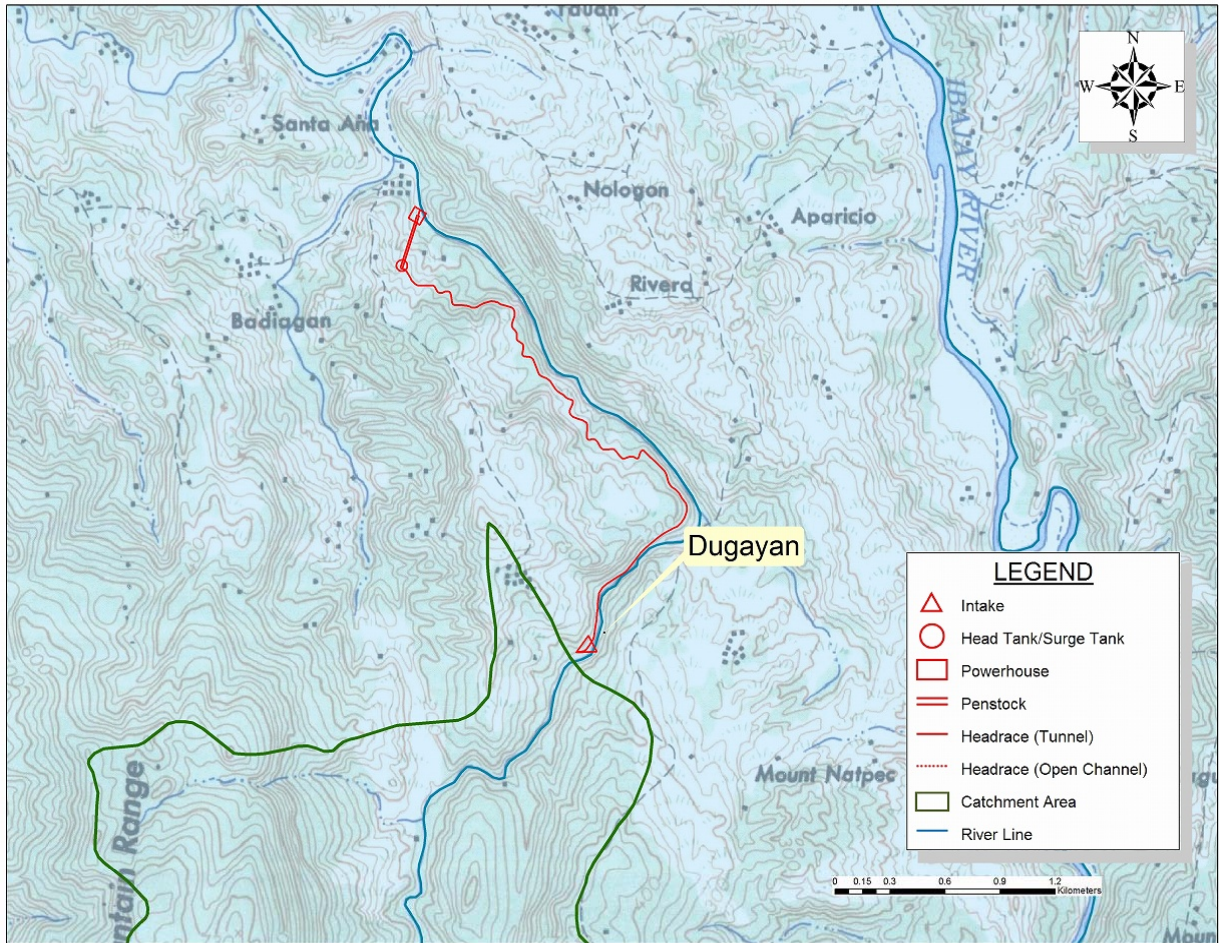
ENVIRONMENT ISSUE

Protected Area	Samar Island Natural Park
Volcano	-

PROJECT STUDY

Study	Type	Map Study Site Reconnaissance
	Date	2012
	Sponsor	JICA

PROJECT NAME Dugayan



LOCATION

Island	Panay
Region	WESTERN VISAYAS
Province	ANTIQUE
Municipality	PANDAN

RIVER

River Basin	Ibajay
River	(Dugayan)

RESERVOIR

Reservoir Volume	-	Mil m ³
Effective Volume	-	Mil m ³
High Water Level	-	m

Coordinate

	Latitude	Longitude
Weir/Dam	11°41'38.57"	122°9'53.53"
Intake1	-	-
Intake2	-	-
Powerhouse	11°42'50.29"	122°9'21.5"

Remark

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POWER GENERATION PLAN

Max Output	0.98 MW
Power Generation Type	Run of River
Annual Power Generation	4.746 GWh
Plant Factor	53%
Catchment Area	17.40 km ²
Maximum Discharge	2.31 m ³ /s
Gross Head	63.00 m
Effective Head	53.98 m
Intake Water Level	141.00 m
Tailrace Water level	78.00 m

PROJECT EVALUATION

Construction Cost	9.85 Mil USD 425.54 Mil PHP
Unit Cost / kW	10,190 USD 440,194 PHP
Unit Cost / kWh	2.00 USD 86.44 PHP
EIRR	-2.0%
FIRR	-4.3%

*1USD =43.2PHP (03/2012)

CIVIL WORKS

Main Weir	Height	5.0 m
	Crest Length	5.0 m
Headrace	Open Channel	2,930.0 m
	Tunnel	- m
Penstock		330.0 m
Tailrace		30.0 m
Access Road		11.0 km

EM / TL WORKS

Turbine	Type	Cross Flow
	Number of Unit	one unit
Transmission	Line Voltage	- kV
	Length	0.2 km

ENVIRONMENT ISSUE

Protected Area	-
Volcano	-

PROJECT STUDY

Study	Type	Map Study Site Reconnaissance
	Date	2012
	Sponsor	JICA