Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-A Class Coast Station
Toli-toli
(Coast Station No. 177)

Table of Content

Note :
☑ Available in this list
☒ Not Available in this list
☐ Unnecessary in this list
* Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	TOLI-TOLI		
CLASS	4th-A	NO.	177

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Yos Sudarso Pel. Toli-Toli	0453-22204		120° 48′ 20″ E	01° 03′ 18″ N

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Palu	[Taking time: 3:00 hr.]	☐ Highway	☐ Heavy	☑ Hotel	
By Ship	to Toli-toli	[Taking time: 9:00 hr.]	☐ Paved	☐ Medium	☐ Motel	
			☑ Unpaved road	☑ Light		
				☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system	
☑ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes	No
☐ Slope	☑ Ordinary	☐ Gravel	☐ Flood Tide	☑ Antenna	☐
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐ Towers (Masts)	☑
☐ Basin	☐ Clay		☐ Ground Subsidence	☑ Grounding system	☐
☐ Valley	☐ Sandy		☑ Tide	☑ Lightning system	☐
Altitude	2.50 M		**Telephone Lines**	☑ Feeder Cable Way	☐
Land area	299.00 m²		☑ 1 Lines	☑ City water	☐

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Zinc
Type of ceiling	Triplex
Type of wall	Brick
Wall finish	Mortar
Flooring	Ceramic

Room Area (m²)	
Operation room	24.00
E / G room	13.50

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	V
Phase	1	
Wire	2	
kVA	0.9	

Quality of PLN source	
Fluctuations	220 V ± 5 %
Availability of power per day	24 Hours
Power interruption /month	15 Times
Total interpt. hours /month	8 Hours
Max. interpt. hours at once	3 Hours

Existing Power Conditions	Good	Bad
Power Supply System	☐	☑
Operations of E/G	☐	☐
Operations of AVR	☐	☐

Capacity of fuel for engine	
Day tank	5 Liter
Main tank	k Liter

E/G Stand-by System	
☑ Single System	
☐ Dual System	

Remark E/G Data is nothing

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Repaired in Disnav Bitung
Examples of major failure	Voltage unstable
Sufficiency of spares	

Records of damages		Environmental Conditions	Good	Bad	
☐ Heavy rainfall					
☐ Storm			☑	☐	External noises
☐ Lightning			☐	☑	Air pollution
☑ Other calamity	Aged equipment				

Institutional and Human Statuses				
1	Budget	☐ Sufficient	☐ Reasonable	☑ Insufficient
2	Spares	☐ Enough	☐ Reasonable	☑ Not enough
3	Measuring eqpt./tools	☐ Enough	☐ Reasonable	☑ Not enough
4	Number of Operator	☐ Enough	☐ Reasonable	☑ Not enough
5	Number of Technician	☐ Enough	☐ Reasonable	☑ Not enough
6	Capability of Operator	☑ Skilled	☐ Not so bad	☐ Not capable
7	Capability of Technician	☐ Skilled	☐ Not so bad	☑ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief	1	
Operator (skilled)	1 ()	()
Technician (skilled)	()	()
Administrator		
Total	2	

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	TOLI-TOLI		
CLASS	4th-A	NO.	177

6. STATISTICAL COMMUNICATION TRAFFIC DATA

Maritime Safety					Public Telecommunication Service							
Years	TG	TEL	DSC	NBDP	Years	Telephone		TG Call	Years	Telephone		TG Call
						Call	Minute			Call	Minute	
1996	1				1991			13	1996			81
1997	1				1992			11	1997			72
1998	2				1993			18	1998			77
1999	1				1994			20	1999			77
2000	2				1995			84	2000			57

7. COMMENTS

Suggestion	Request to completed by telephone call equipment, because Toli-Toli is port of call for passenger's ship (PELNI) Port visited Request for GMDSS, Facsimile and additional personnel in accordance with Class-IVA- Request for new building/new office to support the above equipment
Remarks	

INVENTORY

Site Name: Toli-toli

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		SSB Transceiver	FT/300	095040740HI	Citra	1984			Damaged
2		SSB Transceiver	FS-1000	S/N55902564	Furuno	1989			
3		HF Transceiver	M-700		ICOM				Loan / SBNP
1-2		**VHF System**							
1		VHF Transceiver	FM-400H	245519	Furuno	1989			Good
2		**Tower & Antenna System**							
2-1		**Antenna System**							
1		Pole Antenna (2)	Cylinder						
2		Antenna	Panzer Mast	BP-74148	JRC	1974			Good
2-2		**Antenna Switch**							
1		Antenna Coupler	XW-49	BP-74148	JRC	1974			Good
2		Antenna Coupler	XW-49	BP-74147	JRC	1974			Good
3		Antenna Changer	AW-244	BP-811445	JRC	1974			Good
3		**Power Supply Equipment**							
3-1		**Power Distribution Board**							
1		Distribution Board	NCB-430A	BP-10296	JRC	1974			Damaged
3-2		**Step-Up Transformer**							
1		Step Up/Down				1982			Good
3-3		**UPS & AVR System**							
1		DC Power Supply	CA-1010S			1989			Not So Good
2		DC Power Supply	SN-0688	MS-60E 2/2	Japan	1989			
3		DC Power Supply			Vedio				Loan / Satker
4		**Others**							
1		Fan				1982			Not So Good

STATUS OF TROUBLES

SITE NAME : TOLI-TOLI **TLT-177-(1/1)**

Item / Equipment	DC Power Supply / -		
Manufacturer	New Mar		
Manufacturer in year	1989		
Defective panel / unit	Transformer		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☐ Aging		☐ Immediacy
	☐ Lightning		☐ By next year budget
	☐ Corrosion		☑ By next project
	☐ Lack of Spares		☐ Unnecessary
	☑ Others		

General Comment for Maintenance:

Un-completed with the technician and tool, such as measuring equipment and others

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Toli-toli

TLT-177-(1/1)

Call Sign : Mobile Service : PKM.7
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2.182,0	J3E	100		
2	6 215,0	J3E	100		
	VHF Service				
3	Channel-16	G3E	25		
	Fix Service				
4	5 381,5	J3E	100		
5	9 110,0	J3E	100		
6					
7					
8					
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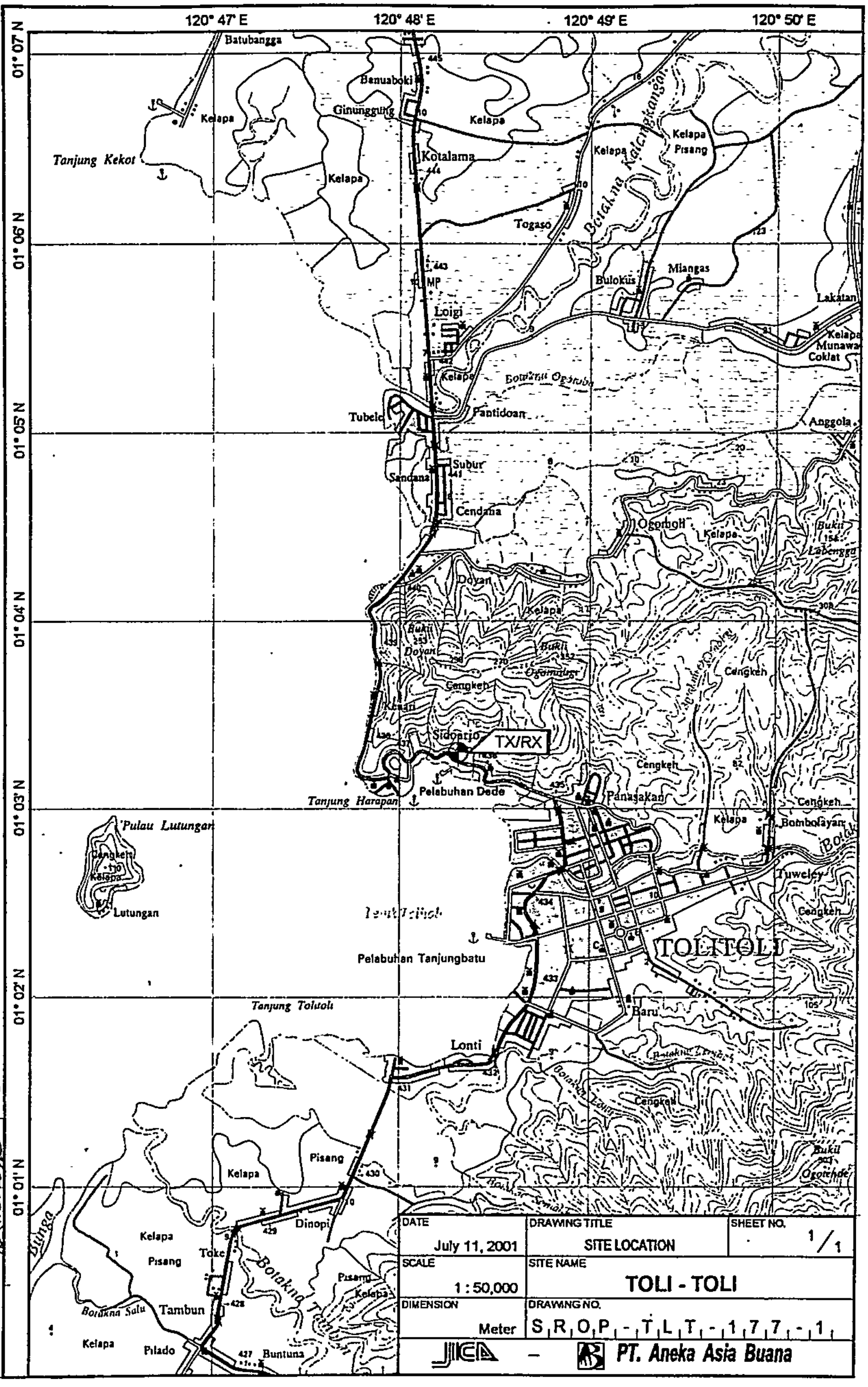
21					
22					
23					



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SCALE	SITE NAME	
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DIMENSION	DRAWING NO.	
Meter	S R O P - T L T - 1 7 7 - 1	

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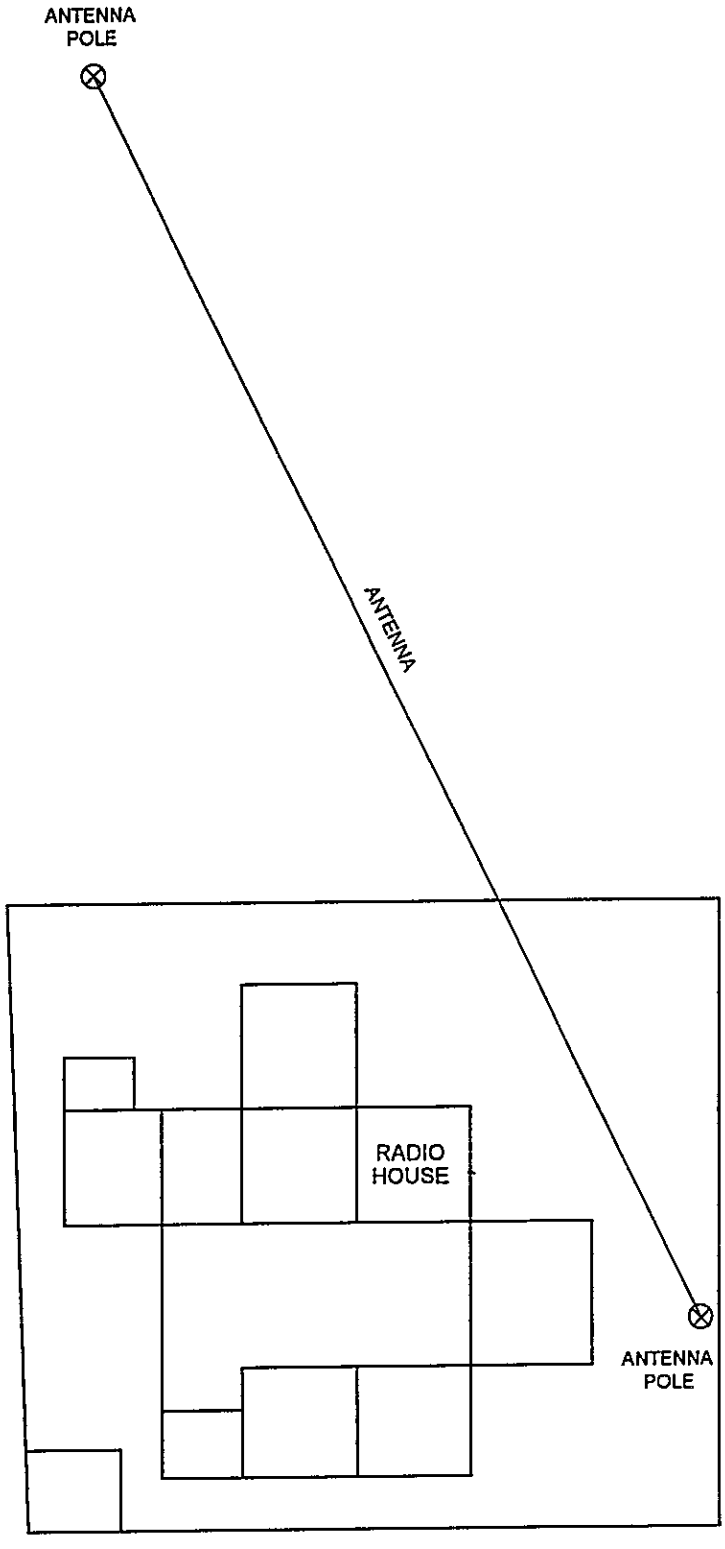
DRAWN BY AAB.

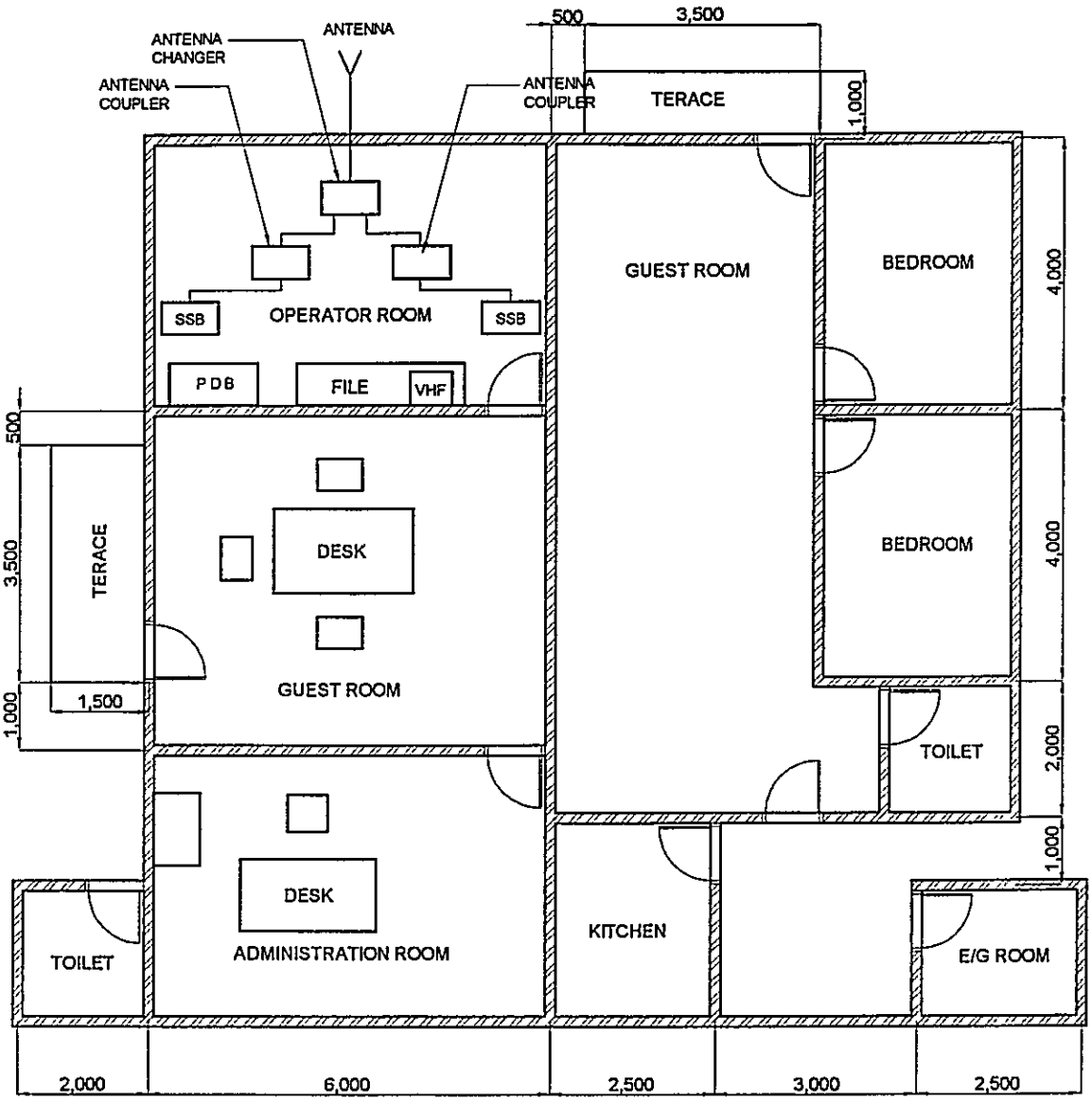
APPROVED BY JICA



APPROVED BY JICA

DRAWN BY AAB

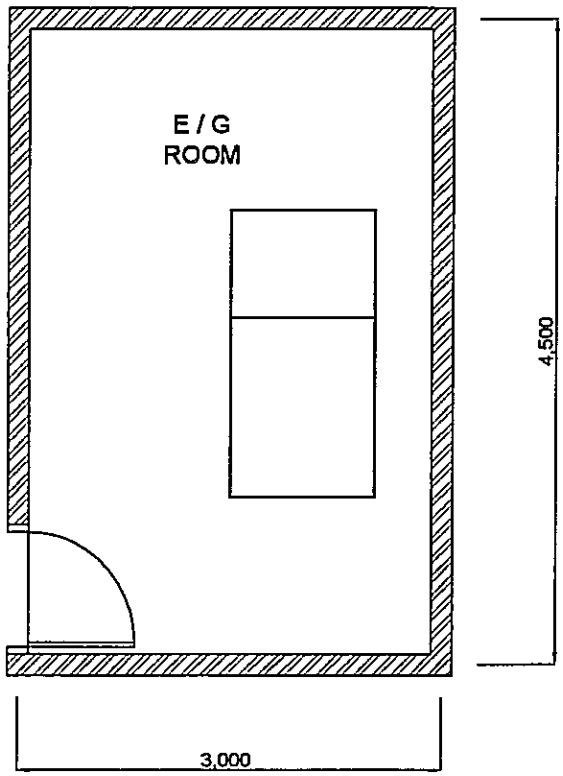
DATE: August 02, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 200	SITE NAME: TOLI-TOLI	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,T,L,T,-,1,7,7,-,2,	
JICA –	PT. Aneka Asia Buana	



APPROVED BY JICA :

DRAWN BY AAB

DATE: July 10, 2001	DRAWING TITLE: EQUIPMENT ROOM LAYOUT	SHEET NO: 1/1
SCALE: 1 : 100	SITE NAME: TOLI-TOLI	
DIMENSION: Milimeter	DRAWING NO.: SROP-TLT-177-3	
JICA –	PT. Aneka Asia Buana	



DATE: July 10, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: TOLI-TOLI	
DIMENSION: Milimeter	DRAWING NO: SROP-TLT-177-4	
JICA - PT. Aneka Asia Buana		

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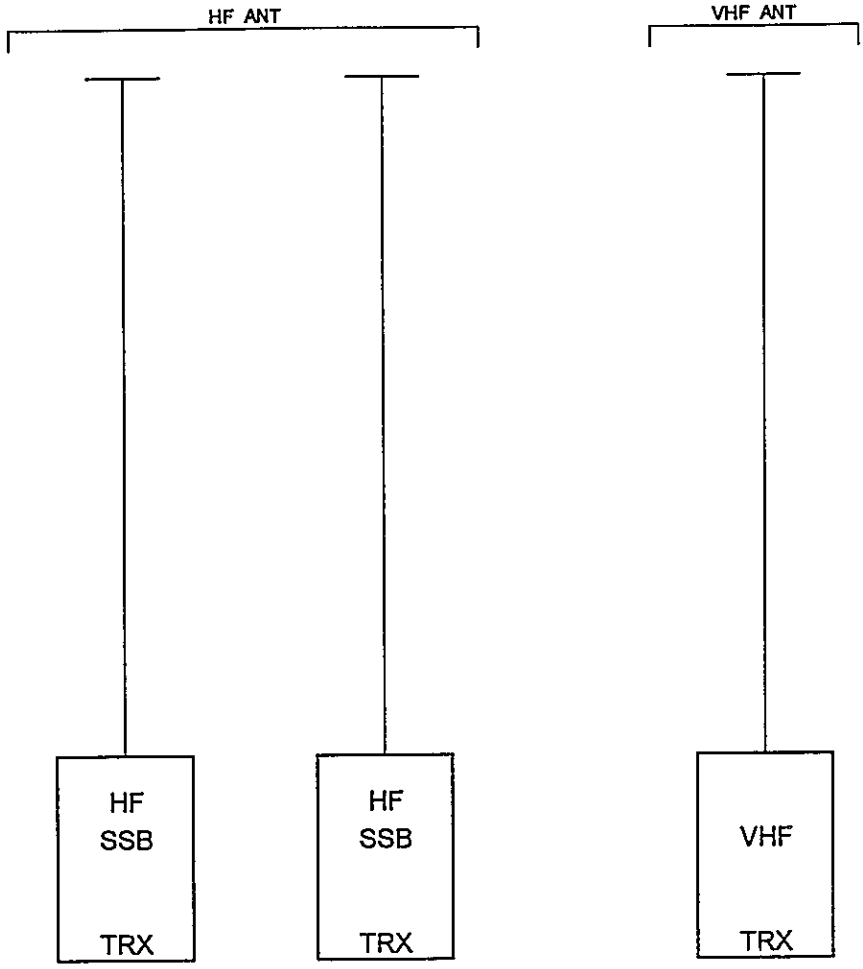
DRAWN BY AAB :



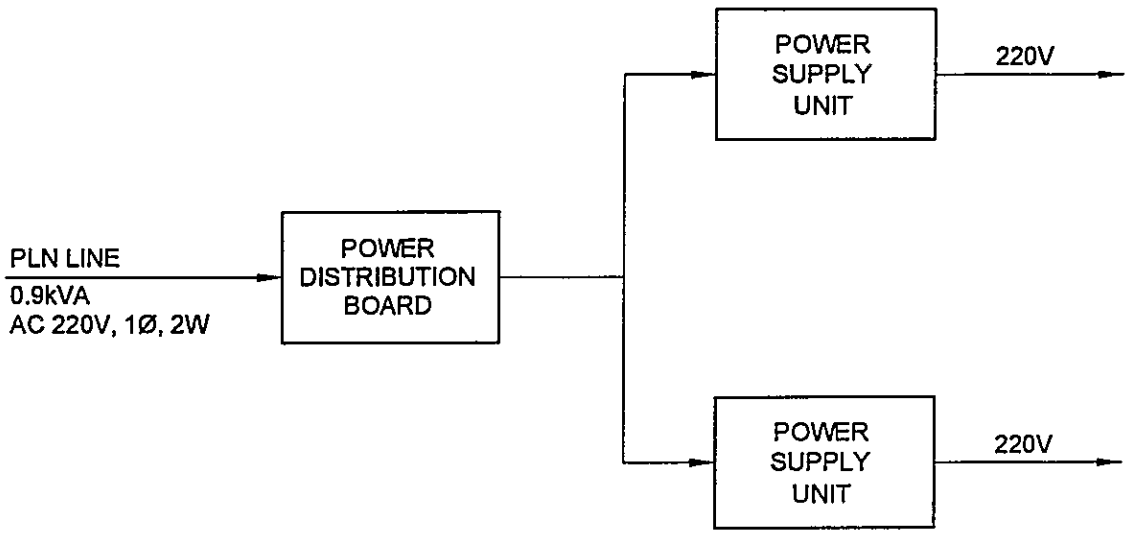
LEGEND

ANT : ANTENNA
HF : HIGH FREQUENCY
TRX : TRANSCEIVER (ING)
VHF : VERY HIGH FREQUENCY

APPROVED BY JICA

DRAWN BY AAB

DATE: July 10, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: TOLI-TOLI	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,T,L,T,-,1,7,7,-,5,	
JICA – PT. Aneka Asia Buana		



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DRAWN BY AAB

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SCALE: No Scale	SITE NAME: TOLI-TOLI	
DIMENSION: Milimeter	DRAWING NO: SRO,P,-,T,L,T,-,1,7,7,-,6,	
JICA -	PT. Aneka Asia Buana	

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-A Class Coast Station

Ulu Siau

(Coast Station No. 178)

Table of Content

Note :
☑ Available in this list
☒ Not Available in this list
☐ Unnecessary in this list
* Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	ULU-SIAU		
CLASS	4th-A	NO.	178

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Kompleks Pelabuhan Siau			124° 24′ 01″ E	02° 44′ 00″ N

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Manado	[Taking time. 4.00 hr.]	☐ Highway	☐ Heavy	☐ Hotel	
By Ship	to Siau	[Taking time: 5.00 hr.]	☑ Paved	☑ Medium	☑ Motel	
			☐ Unpaved road	☐ Light		
				☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system	
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes	No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑	☐ Antenna
☑ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐	☑ Towers (Masts)
☐ Basin	☐ Clay	☑ Stony	☑ Ground Subsidence	☐	☑ Grounding system
☐ Valley	☐ Sandy			☐	☑ Lightning system
Altitude	1.50 M		**Telephone Lines**	☐	☑ Feeder Cable Way
Land area	m²		☐ Lines	☑	☐ City water

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Zinc
Type of ceiling	Tripleks
Type of wall	Brick
Wall finish	Mortar
Flooring	Tile

Room Area (m²)	
Operation room	11.20
E / G room	11.20

Remark

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	1	1
Wire	2	2
kVA	0.5	2

Quality of PLN source			
Fluctuations	220 V ± 10 %		
Availability of power per day		24 Hours	
Power interruption /month		Times	
Total interpt. hours /month		Hours	
Max. interpt. hours at once		Hours	

Existing Power Conditions		
Good	Bad	
☑	☐	Power Supply System
☑	☐	Operations of E/G
☑	☐	Operations of AVR

Capacity of fuel for engine	
Day tank	3 Liter
Main tank	k Liter

E/G Stand-by System	
☑	Single System
☐	Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Repaired in Disnav Bitung
Examples of major failure	
Sufficiency of spares	

Records of damages		Environmental Conditions		
		Good	Bad	
☐ Heavy rainfall				
☐ Storm		☐	☑	External noises
☐ Lightning		☐	☑	Air pollution
☐ Other calamity				

Institutional and Human Statuses				
1	Budget	☐ Sufficient	☐ Reasonable	☑ Insufficient
2	Spares	☐ Enough	☐ Reasonable	☑ Not enough
3	Measuring eqpt./tools	☐ Enough	☐ Reasonable	☑ Not enough
4	Number of Operator	☐ Enough	☐ Reasonable	☑ Not enough
5	Number of Technician	☐ Enough	☐ Reasonable	☑ Not enough
6	Capability of Operator	☐ Skilled	☑ Not so bad	☐ Not capable
7	Capability of Technician	☐ Skilled	☐ Not so bad	☑ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief	1	
Operator (skilled)	0	0
Technician (skilled)	0	0
Administrator		
Total	1	

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	ULU-SIAU		
CLASS	4th-A	NO.	178

6. STATISTICAL COMMUNICATION TRAFFIC DATA

Maritime Safety					Public Telecommunication Service							
Years	TG	TEL	DSC	NBDP	Years	Telephone		TG Call	Years	Telephone		TG Call
						Call	Minute			Call	Minute	
1996					1991			1	1996			2
1997					1992			4	1997			
1998					1993			8	1998			
1999					1994			1	1999			1
2000					1995				2000			

7. COMMENTS

Suggestion	Request to completed by GMDSS equipmen, additional personnel in accordance with Class-IVA Request for new building/new office to support the above equipment
Remarks	

INVENTORY

Site Name: Ulu Siau

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		HF Transceiver	FT-300C	08301038oh8	Yaesu	1983		Repair In Bitung	Damaged
2		HF Transceiver	IC-M700	01231	ICOM	1990		Repair In Bitung	Good
3		HF Transceiver	IC-M700	6037	ICOM	1995			Good
2		**Tower & Antenna System**							
2-1		**Antenna System**							
1		Single Doublet Antenna (x2)				1983			
2		Long Wire Antenna				1990			Good
3		Long Wire Antenna				1995			Good
2-2		**Antenna Switch**							
1		Antenna Tuner	FT-300C	1H030194	Yaesu	1983			Damaged
2		Automatic Antenna Tuner (HF)	AT-120		ICOM	1990			Good
3		Automatic Antenna Tuner (HF)	AT-120		ICOM	1995		Repair In Bitung	Damaged
3		**Power Supply Equipment**							
3-1		**UPS & AVR**							
1		Power Supply	PS-8930	183029	Vedio	1990			Good
2		Power Supply	AK-4040-AV		Dakai	1995			Good
3		Accumulator 12V/200AH	GS-N-200		GS	1995			Good
4		Accu Charger		BC-500	Lancer	1995			Good
5		Automatic Voltage Regulator	SVC-500N		Matsunaga				Good
6		Automatic Voltage Regulator	500N		Yamada				Damaged
3-2		**Engine Generator**							
1		Engine 4PK	TS-50	DT-111	Yanmar	1983			Good
2		Generator 2kVA	FA-2	0427636	Denyo	1983			Good

INVENTORY

Site Name: Ulu Siau

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
4		**Measuring Equipment**							
1		Multi Tester	SP-10-D		Sanwa	1985			Damaged
2		Multi Tester	YX360TRX		Sanwa				Good
5		**Others**							
1		Portable Typewritter	Royal	40241441	Japan	1991			Good
2		Desk	0.5 Biro			1985			
3		Rack				1985			
4		Chair	Phonix			1985			Damaged
5		Ring Key	Diamond			1991			
6		Fan	FFC-234	060795	Nasional	1996			Good
7		File Rack				1985			Damaged

STATUS OF TROUBLES

SITE NAME : ULU SIAU **USI-178-(1/1)**

Item / Equipment	Office Building and Radio Unit / -		
Manufacturer	-		
Manufacturer in year	-		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☐ Aging		☐ Immediacy
	☐ Lightning		☐ By next year budget
	☐ Corrosion		☑ By next project
	☐ Lack of Spares		☐ Unnecessary
	☑ Others		

General Comment for Maintenance:

Ulu Siau Coast Station utilized Siau Port office since the year 1986, we request for office building construction and official house
Request for completed by GMDS equipment systems
Needed additional capable operator and technician

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Ulu Siau

USI-178-(1/1)

Call Sign : Mobile Service PKM.24
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2 182,0	J3E	100		
2	6 215,0	J3E	100		
3	2 090,0	J3E	100		
4	6 209,0	J3E	100		
5	6 209,0	J3E	100		
6	6 510,0	J3E	100		
	Fix Service				
7	5 381,5	J3E	100		
8	9 110,0	J3E	100		
9					
10					
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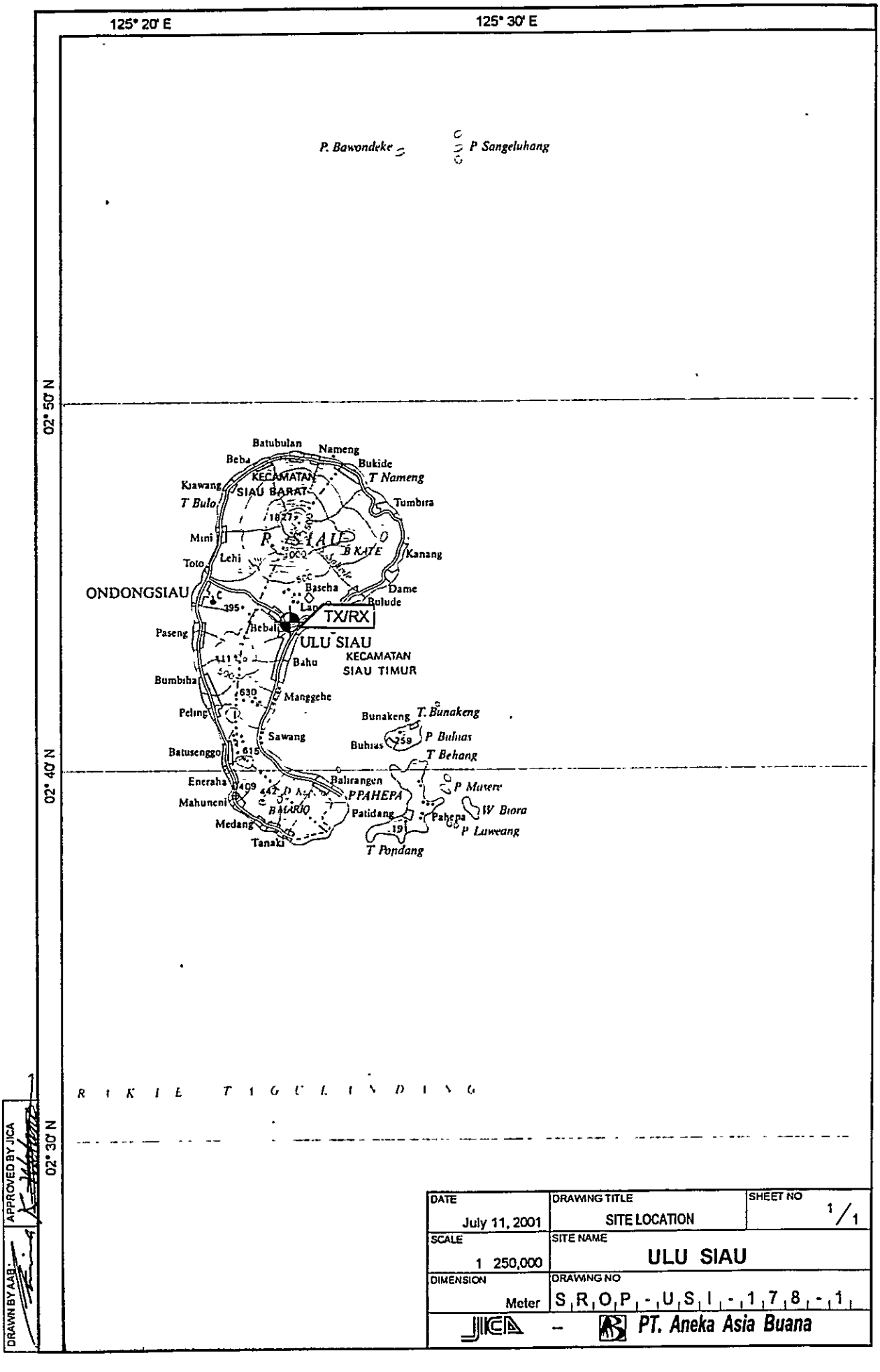
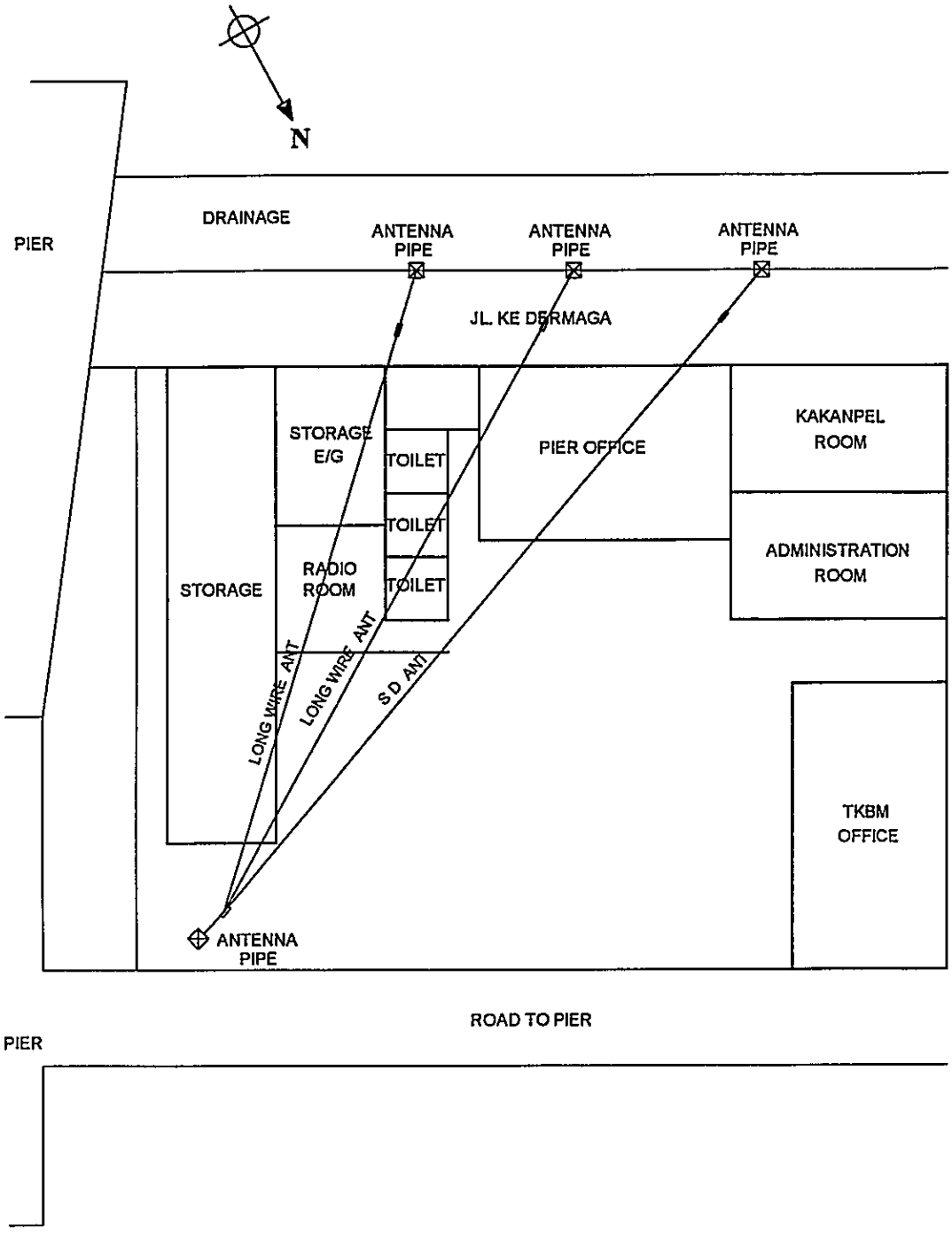
25					



DATE: July 11, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 250,000	SITE NAME: ULU SIAU	
DIMENSION: Meter	DRAWING NO: S,R,O,P,-,U,S,I,-,1,7,8,-,1	
JICA --	PT. Aneka Asia Buana	

APPROVED BY JICA

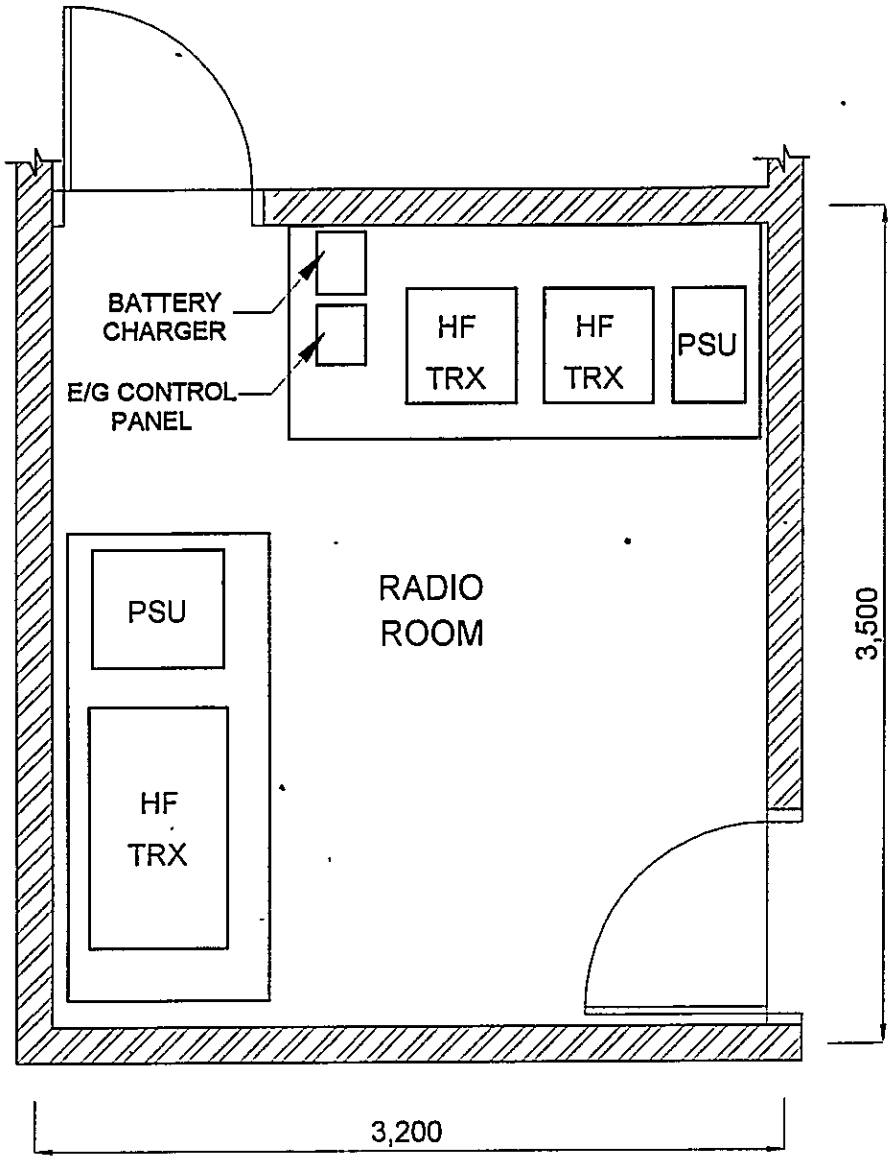
DRAWN BY AAB



APPROVED BY JICA

DRAWN BY AAB

DATE: July 10, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 500	SITE NAME: ULU SIAU	
DIMENSION: Milimeter	DRAWING NO.: S R O P - U S I - 1 7 8 - 2	
JICA – PT. Aneka Asia Buana		



LEGEND

HF : HIGH FREQUENCY
PSU : POWER SUPPLY UNIT
TRX : TRANSMITTER (ING)

DATE: July 10, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 30	SITE NAME: ULU SIAU	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,U,S,I,-,1,7,8,-,3,	
JICA –	PT. Aneka Asia Buana	

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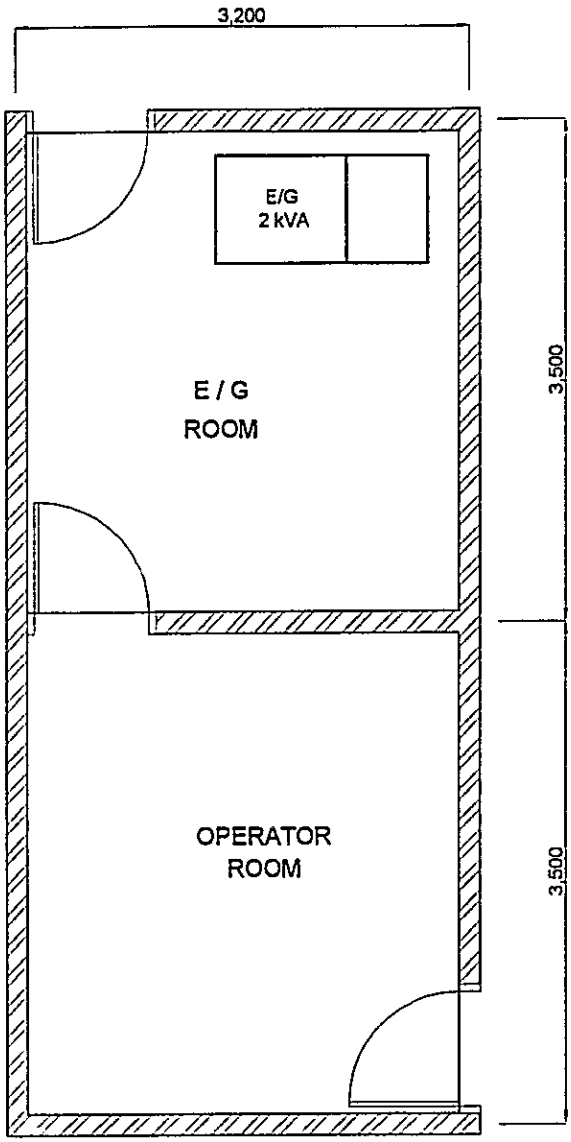


LEGEND

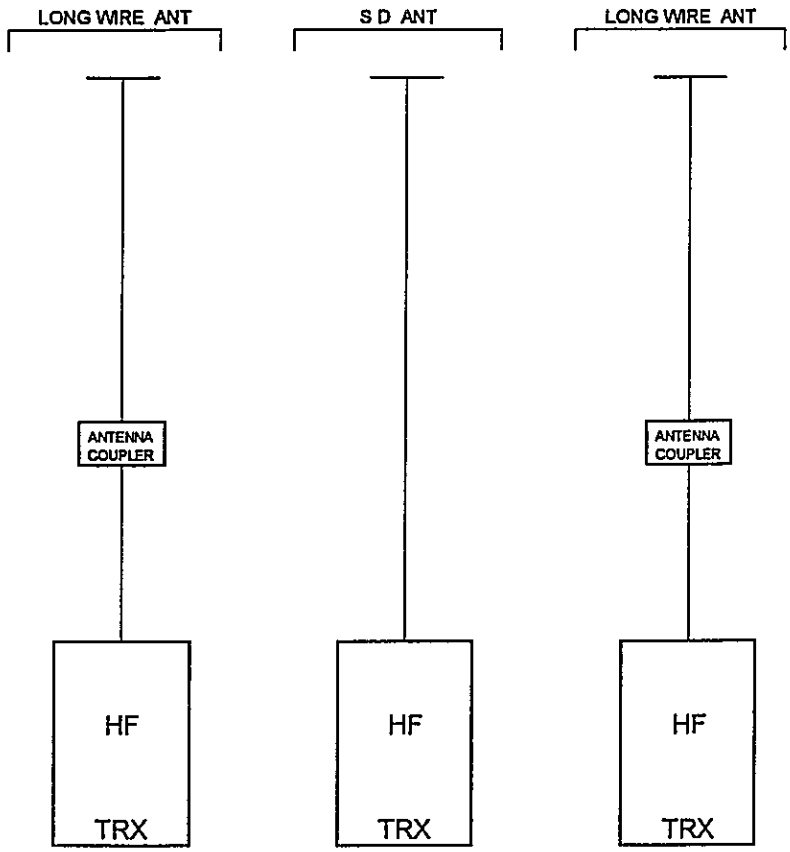
E/G ENGINE GENERATOR

kVA . KILO VOLT AMPERE

APPROVED BY JICA

DRAWN BY AAB

DATE: July 10, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: ULU SIAU	
DIMENSION: Milimeter	DRAWING NO.: SROP-USI-178-4	
JICA –	PT. Aneka Asia Buana	



LEGEND

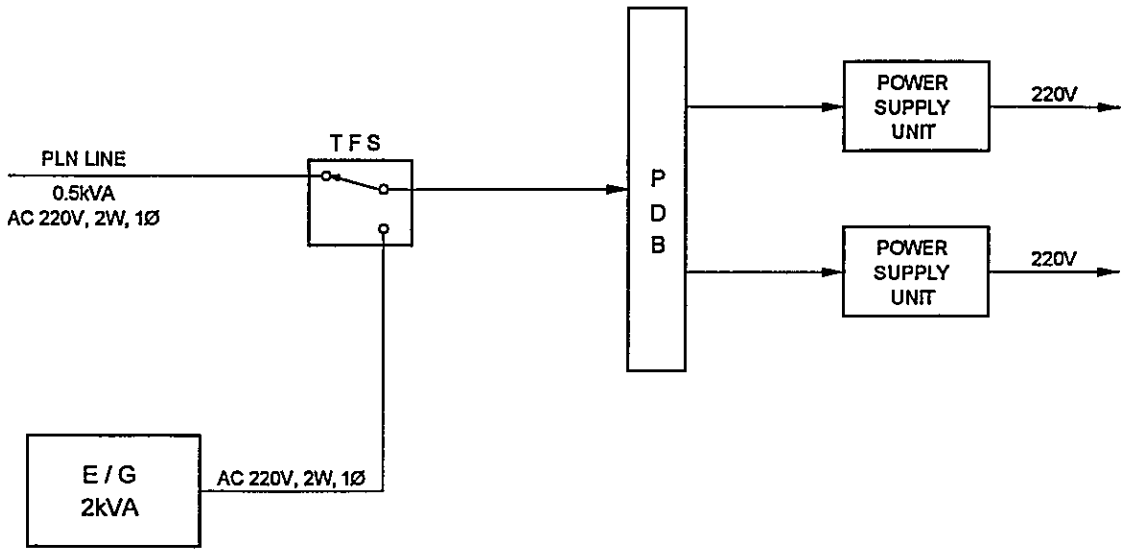
ANT : ANTENNA
HF : HIGH FREQUENCY
SD : SINGLE DOUBLET
TRX : TRANSCEIVER (ING)

APPROVED BY JICA :

DRAWN BY AAB

DATE: July 10, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: ULU SIAU	
DIMENSION: Milimeter	DRAWING NO: SROP-USI-178-5	

JICA – PT. Aneka Asia Buana



LEGEND

E/G : ENGINE GENERATOR
PDB : POWER DISTRIBUTION BOARD
TFS : TRANSFER SWITCH
V : VOLT

DATE: July 10, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: ULU SIAU	
DIMENSION: Milimeter	DRAWING NO: S R O P - U S I - 1 7 8 - 6	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB
APPROVED BY JICA

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-A Class Coast Station
Manado
(Coast Station No. 179)

Table of Content

Note :
☑ Available in this list
☒ Not Available in this list
☐ Unnecessary in this list
* Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	MANADO		
CLASS	4th-A	NO.	179

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Komp. Pelabuhan Manado	845577		124° 50′ 41″ E	01° 29′ 47″ N

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Manado [Taking time: 4:00 hr.]	☐ Highway	☐ Heavy	☑ Hotel	2,000,000
By Car to Location [Taking time: 0 30 hr.]	☑ Paved	☐ Medium	☐ Motel	
	☐ Unpaved road	☑ Light		
		☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
☑ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑ ☐ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☑ ☐ Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☑ ☐ Grounding system
☐ Valley	☑ Sandy			☑ ☐ Lightning system
Altitude	3.00 M		**Telephone Lines**	☑ ☐ Feeder Cable Way
Land area	136,135 m²		☑ 1 Lines	☐ ☑ City water

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Zinc
Type of ceiling	Triplex
Type of wall	Brick
Wall finish	Mortar
Flooring	Mortar
Room Area (m²)	
Operation room	15.00
E / G room	
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	V
Phase	1	
Wire	2	
kVA	0 9	

Quality of PLN source	
Fluctuations	300 V ± 30 %
Availability of power per day	24 Hours
Power interruption /month	11 Times
Total interpt. hours /month	10 Hours
Max interpt. hours at once	2.5 Hours

Existing Power Conditions	Good	Bad
☑ ☐ Power Supply System	☑	☐
☐ ☐ Operations of E/G	☐	☐
☐ ☑ Operations of AVR	☐	☑

Capacity of fuel for engine	
Day tank	Liter
Main tank	k Liter

E/G Stand-by System

☐ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure

Restoration flow	Repaired in Disnav Bitung
Examples of major failure	Transceiver and Power Supply
Sufficiency of spares	

Records of damages		Environmental Conditions	Good	Bad	
☐ Heavy rainfall					
☐ Storm			☐	☑	External noises
☐ Lightning			☐	☑	Air pollution
☑ Other calamity	PLN Fluctuation				

Institutional and Human Statuses				
1	Budget	☐ Sufficient	☐ Reasonable	☑ Insufficient
2	Spares	☐ Enough	☑ Reasonable	☐ Not enough
3	Measuring eqpt./tools	☐ Enough	☐ Reasonable	☑ Not enough
4	Number of Operator	☐ Enough	☐ Reasonable	☑ Not enough
5	Number of Technician	☐ Enough	☐ Reasonable	☑ Not enough
6	Capability of Operator	☐ Skilled	☑ Not so bad	☐ Not capable
7	Capability of Technician	☐ Skilled	☐ Not so bad	☑ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief	1	
Operator (skilled)	3 ()	()
Technician (skilled)	()	()
Administrator		
T o t a l	4	
		..

Training Record

Course	Class	Location	Period	Trainee
Operator	Oru	Jakarta		2

SUMMARY OF COAST STATION	SITE	MANADO		
	CLASS	4th-A	NO.	179

6. STATISTICAL COMMUNICATION TRAFFIC DATA

Maritime Safety					Public Telecommunication Service							
Years	TG	TEL	DSC	NBDP	Years	Telephone		TG Call	Years	Telephone		TG Call
						Call	Minute			Call	Minute	
1996					1991				1996			
1997					1992				1997			
1998					1993				1998			
1999					1994				1999			
2000					1995				2000			

7. COMMENTS

Suggestion	Referring to the result of monitoring : Ships did not used Maritme Frequency for his communication but directly to the ships owner or navigation company. It will be better, Manado Coast Station completed by GMDSS equipment
Remarks	

INVENTORY

Site Name: Manado

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		HF Transceiver JSB-50	NTD-177	003-40	JRC	1974			No Good
2		HF Transceiver JSB-35	NTD-168C	AC-10350	JRC	1974			No Good
3		HF Transceiver	IC-M700	01284	ICOM	1990			Good
1-2		**VHF System**							
1		VHF Transceiver	FM-400	247629	Furuno	1989			Damaged
2		**Tower & Antenna System**							
2-1		**Antenna System**							
1		VHF Dipole Antenna	Ringgo		ROC	1999			Good
2		Open Dipole Antenna				1970			
3		Antenna Long Wire				1999			Good
2-2		**Antenna Switch**							
1		Antenna Coupler	XW-49	BP-74145	JRC	1970			No Good
2		Automatic Antenna Tuner	AT-120		JRC	1990			Good
3		Antenna Matching Unit	AW-142	BP-71166	JRC	1974			No Good
3		**Power Supply Equipment**							
3-1		**UPS & AVR System**							
1		Power Unit	NBA-901B	003-40	JRC	1974			No Good
2		Power Supply	CA-1010S		Carlton	1989			Good
3		Power Supply	PS-8930		Video	1990			
4		Power Unit	NBA-605A		JRC	1970			No Good
5		Power Supply		40200	Dakai	1999			Good
6		Stavolt	AR-500H	017050110	Aero	1999			Good
4		**Others**							
1		Air Conditioner	Window		Sharp				No Good

STATUS OF TROUBLES

SITE NAME : MANADO **MND-179-(1/1)**

Item / Equipment	HF Transceiver, VHF Transceiver FM 400 / -		
Manufacturer	Icom, Furuno		
Manufacturer in year	1990, 1989		
Defective panel / unit	Power Amplifier, TX/RX		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☑ Aging		☑ Immediacy
	☐ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

- Not enough budget for buying the spare part or repairement

OPERATION SCHEDULE (FREQUENCIES)

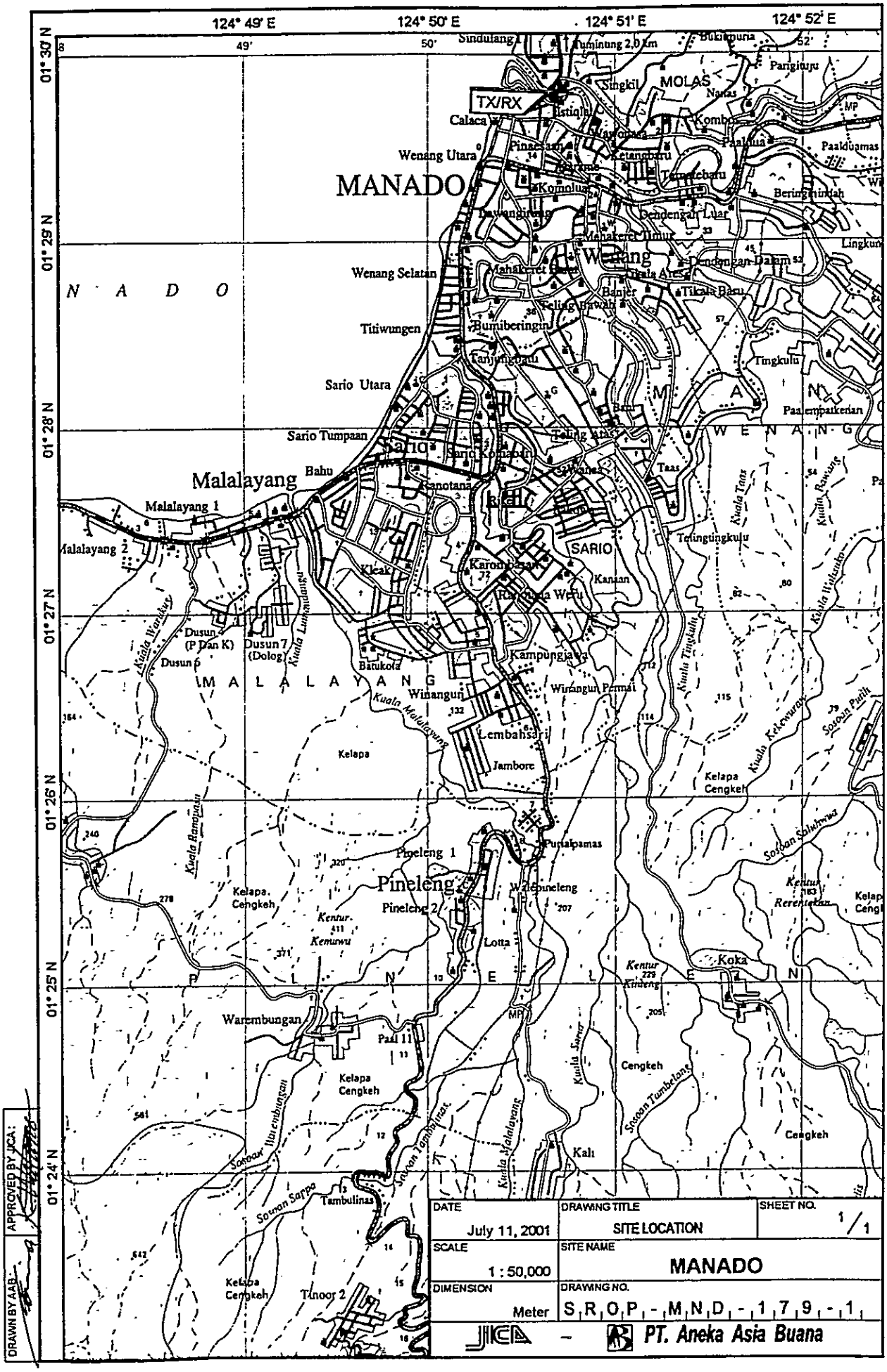
Site Name: Manado

MND-179-(1/1)

Call Sign : Mobile Service PKM 26

Fix Service :

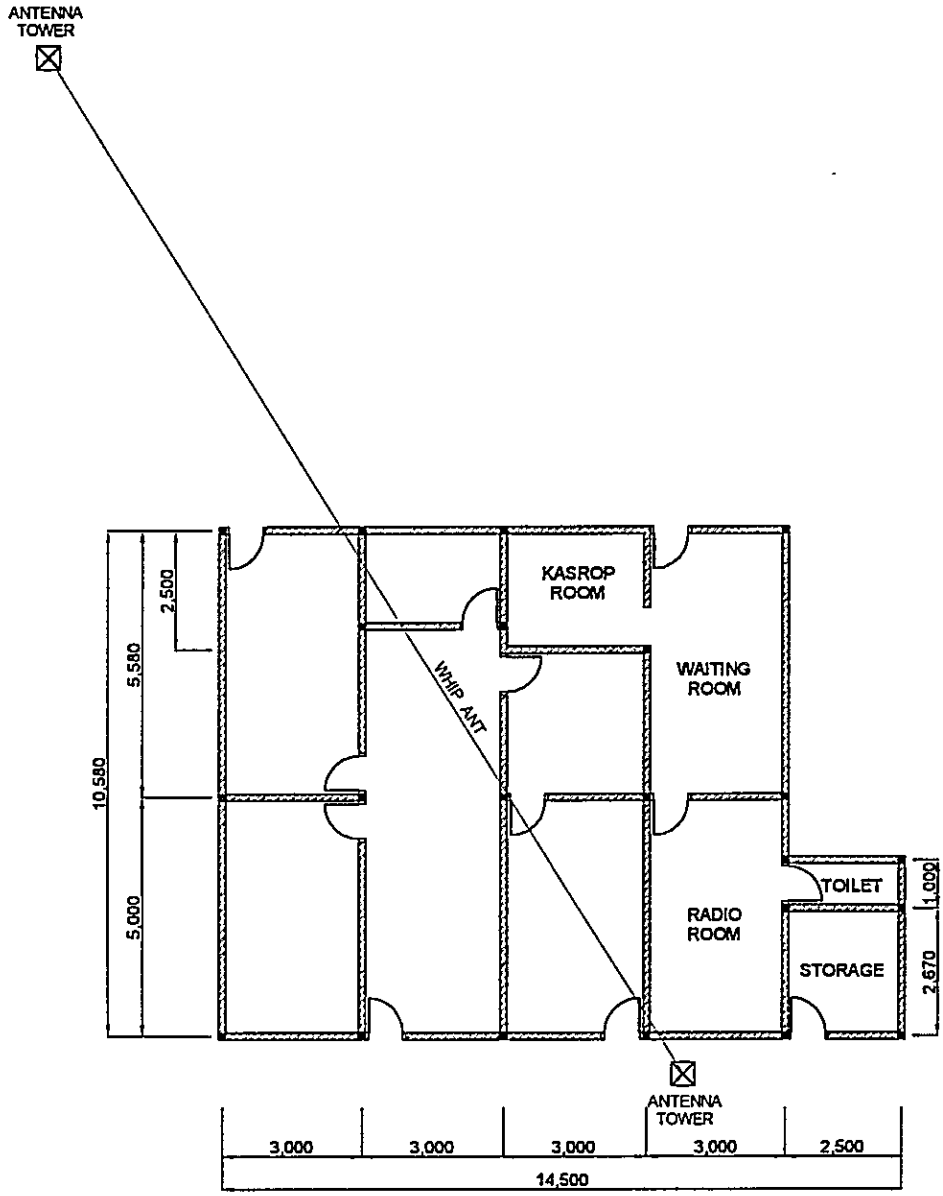
	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2 182,0	J3E	100		
2	3 180,0	J3E	100		
3	6 215,0	J3E	100		
4	6 510,0	J3E	100		
	VHF Service				
5	Channel-12	F3E	40		
6	Channel-13	F3E	40		
7	Channel-14	F3E	40		
8	Channel-16	F3E	40		
9	Channel-20	F3E	40		
10	Channel-22	F3E	40		
	Fix Service				
11	5 381,5	J3E	100		
12	5 380,5	J3E	100		
13	4 446,5	J3E	100		
14	9 110,0	J3E	100		
15					
16					
17					
18					
19					
20					
21					
22					
23					



DATE: July 11, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO.: 1/1
SCALE: 1 : 50,000	SITE NAME: MANADO	
DIMENSION: Meter	DRAWING NO.: S R O P - M N D - 1 7 9 - 1	

JICA – PT. Aneka Asia Buana

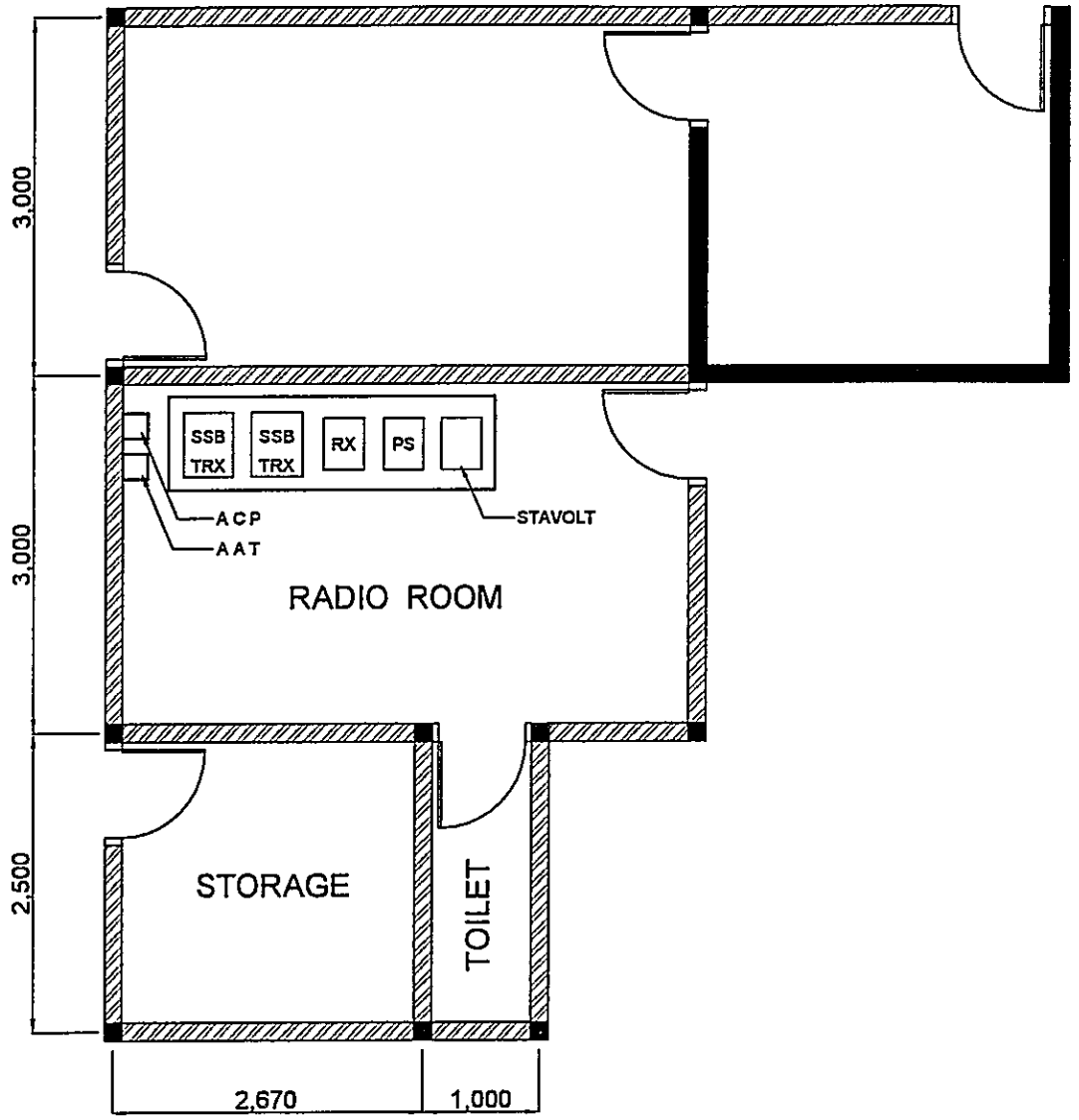
DRAWN BY AAB: APPROVED BY JICA:



APPROVED BY JICA :

DRAWN BY AAB

DATE: August 02, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 150	SITE NAME: **MANADO**	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,M,N,D,-,1,7,9,-,2,	
JICA –	PT. Aneka Asia Buana	

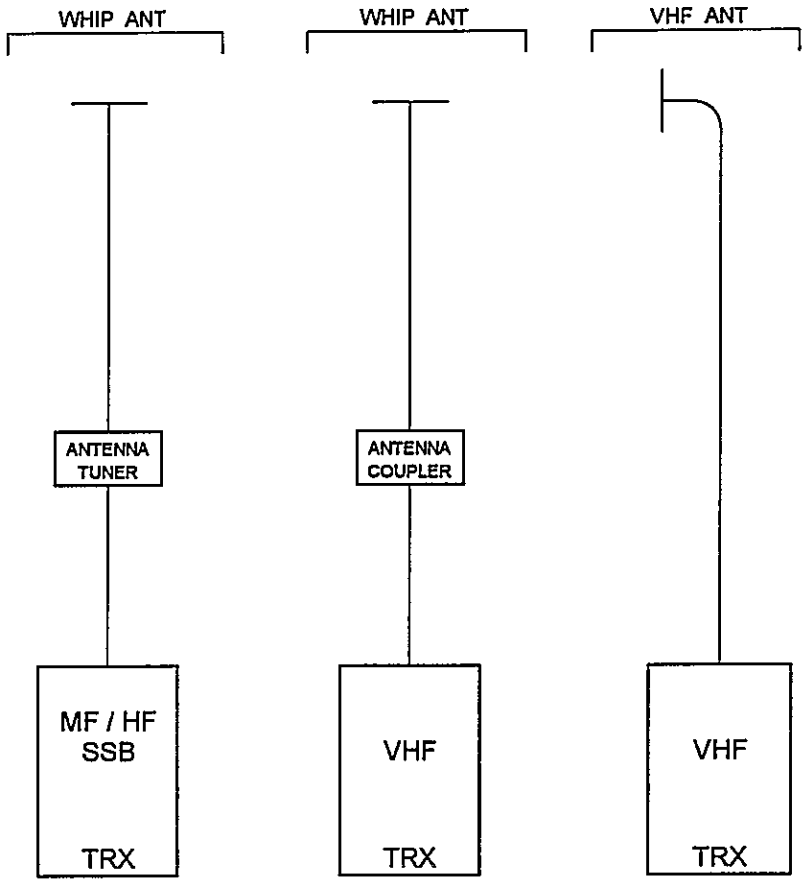


LEGEND

AAT : AUTOMATIC ANTENNA TUNER
ACP : AUTOMATIC ANTENNA TUNER
RX : RECEIVER
PS : POWER SUPPLY
TRX : TRANSCEIVER

DRAWN BY AAB | APPROVED BY JICA

DATE: August 02, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 60	SITE NAME: MANADO	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,M,N,D,-,1,7,9,-,3,	
JICA –	PT. Aneka Asia Buana	



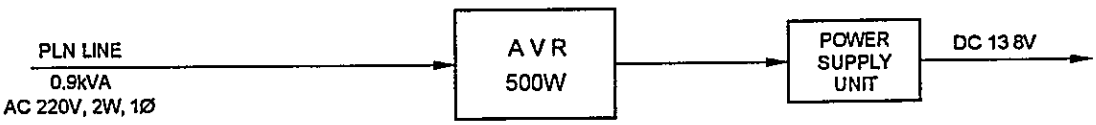
LEGEND

ANT : ANTENNA
HF : HIGH FREQUENCY
MF : MEDIUM FREQUENCY
TRX : TRANSCEIVER (ING)
VHF : VERY HIGH FREQUENCY

APPROVED BY JICA

DRAWN BY AAB

DATE: July 30, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: MANADO	
DIMENSION: Milimeter	DRAWING NO: SROP-MND-179-5	
JICA – PT. Aneka Asia Buana		



LEGEND

AC	: ALTERNATING CURRENT
AVR	: AUTOMATIC VOLTAGE REGULATOR
E/G	: ENGINE GENERATOR
kVA	: KILO VOLT AMPERE
V	: VOLT
W	: WIRE / WATT
Ø	: PHASE

APPROVED BY JICA

DRAWN BY AAB

DATE: July 30, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: MANADO	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,M,N,D,-,1,7,9,-,6,	
JICA –	PT. Aneka Asia Buana	

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-A Class Coast Station
Tahuna
(Coast Station No. 180)

Table of Content

Note :
☑ Available in this list
☒ Not Available in this list
☐ Unnecessary in this list
* Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	TAHUNA		
CLASS	4th-A	NO.	180

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Kompleks Pelabuhan Tahuna			125° 30′ 10″ E	03° 35′ 20″ N

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Manado [Taking time: 4:00 hr.]	☐ Highway	☐ Heavy	☑ Hotel	
By Ship to Tahuna [Taking time: 11:00 hr.]	☑ Paved	☐ Medium	☐ Motel	
	☐ Unpaved road	☑ Light		
		☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system	
☑ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes	No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑	☐ Antenna
☐ Hill-top	☑ Swampy	☐ Rocky	☐ Rain Leakage	☑	☐ Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☐	☑ Grounding system
☐ Valley	☐ Sandy		☑ Tide	☑	☐ Lightning system
Altitude	2.00 M		**Telephone Lines**	☐	☑ Feeder Cable Way
Land area	550 m²		☐ Lines	☑	☐ City water

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Zinc
Type of ceiling	Triplex
Type of wall	Brick
Wall finish	Mortar
Flooring	Ceramic
Room Area (m²)	
Operation room	23.00
E / G room	11.00
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	1	1
Wire	2	2
kVA	1.3	7.5

Quality of PLN source	
Fluctuations	220 V ± 10 %
Availability of power per day	24 Hours
Power interruption /month	3 Times
Total interpt. hours /month	12 Hours
Max. interpt. hours at once	3 Hours

Existing Power Conditions	Good	Bad
Power Supply System	☑	☐
Operations of E/G	☑	☐
Operations of AVR	☑	☐

Capacity of fuel for engine	
Day tank	100 Liter
Main tank	1 k Liter

E/G Stand-by System

☑ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure

Restoration flow	Repaired in Bitung Navigation
Examples of major failure	
Sufficiency of spares	

Records of damages		Environmental Conditions	Good	Bad	
☐ Heavy rainfall					
☐ Storm			☐	☑	External noises
☐ Lightning			☐	☑	Air pollution
☐ Other calamity					

Institutional and Human Statuses				
1	Budget	☐ Sufficient	☐ Reasonable	☑ Insufficient
2	Spares	☐ Enough	☐ Reasonable	☑ Not enough
3	Measuring eqpt./tools	☐ Enough	☑ Reasonable	☐ Not enough
4	Number of Operator	☐ Enough	☐ Reasonable	☑ Not enough
5	Number of Technician	☐ Enough	☐ Reasonable	☑ Not enough
6	Capability of Operator	☐ Skilled	☑ Not so bad	☐ Not capable
7	Capability of Technician	☐ Skilled	☐ Not so bad	☑ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief	1	
Operator (skilled)	1 (1)	()
Technician (skilled)	()	()
Administrator		
T o t a l	2	

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	TAHUNA		
CLASS	4th-A	NO.	180

6. STATISTICAL COMMUNICATION TRAFFIC DATA

Maritime Safety					Public Telecommunication Service							
Years	TG	TEL	DSC	NBDP	Years	Telephone		TG Call	Years	Telephone		TG Call
						Call	Minute			Call	Minute	
1996					1991				1996			42
1997					1992			1	1997			34
1998					1993				1998			7
1999					1994				1999			14
2000					1995			24	2000			10

7. COMMENTS

Suggestion	Request for telephone installation, and additional technician for equipment maintenance Training for human resources and work professionalism
Remarks	

INVENTORY

Site Name: Tahuna

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**MF/HF System**							
1-1-1		**Transceiver**							
1		100W HF SSB Transceiver	FT.300C	08504072	Yaesu	1982			Damaged
2		100W HF SSB Transceiver	FT.300C	08301037	Yaesu	1982			Damaged
3		100W HF SSB Transceiver	IC-M700	01270	ICOM	1990			Good
4		100W HF SSB Transceiver	IC-M700	4912	ICOM	1993			Good
1-1-2		**Receiver**							
1		Receiver	NRD-11E	AR-1006	JRC	1969			Damaged
1-2		**MF/HF Operation Console**							
1		MF/HF Console	RH-16-3	012	Sailor	1996	F-TA-193: PH3		Good
2		MF/HF Equipment							
		600 W MF/HF Transmitter	T2131	520492	Sailor	1996	F-TA-193: PH3		Good
		600 W MF/HF Transmitter	T2131	520490	Sailor	1996	F-TA-193: PH3		Good
		AC Power Supply	N2171	521008	Sailor	1996	F-TA-193: PH3		Damaged
		AC Power Supply	N2171	521006	Sailor	1996	F-TA-193: PH3		Good
		Antenna Coupler	AT2112	516173	Sailor	1996	F-TA-193: PH3		Good
		Antenna Coupler	AT2112	514522	Sailor	1996	F-TA-193: PH3		Good
		CW Unit	H2185	522731	Sailor	1996	F-TA-193: PH3		Good
		CW Unit	H2185	522732	Sailor	1996	F-TA-193: PH3		Good
2		All Wave Receiver							
		Control Unit HF1	RE2100	521636	Sailor	1996	F-TA-193: PH3		Good
		Control Unit HF2	RE2100	521637	Sailor	1996	F-TA-193: PH3		Good
		Duplex Receiver	R2120T	518071	Sailor	1996	F-TA-193: PH3		Good
		Duplex Receiver	R2120T	518074	Sailor	1996	F-TA-193: PH3		Good
		Loudspeaker (2)	H2054		Sailor	1996	F-TA-193: PH3		Good
3		Spot Receiver							
		MF/HF DSC W/K RX	RM2150	523150	Sailor	1996	F-TA-193: PH3		Good
		Power Supply	N2165	511760	Sailor	1996	F-TA-193: PH3		Good

INVENTORY

Site Name: Tahuna

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
4		Terminal Unit (DSC VHF/HF)							
		DSC System	TT-6200A		Sailor	1996	F-TA-193: PH3		Good
		LAN	TT-101064		Sailor	1996	F-TA-193: PH3		Good
		LAN I/O	TT-101065		Sailor	1996	F-TA-193: PH3		Good
		CPU	TT-101051		Sailor	1996	F-TA-193: PH3		Good
		CPU I/O	TT-10123		Sailor	1996	F-TA-193: PH3		Good
		Paralel	TT-101190		Sailor	1996	F-TA-193: PH3		Good
		Paralel I/O	TT-101217		Sailor	1996	F-TA-193: PH3		Good
		VHF Modem	TT-102239		Sailor	1996	F-TA-193: PH3		Good
		HF Modem	TT-1022337		Sailor	1996	F-TA-193: PH3		Good
		Modem I/O (2)	TT-102238		Sailor	1996	F-TA-193: PH3		Good
		Alarm I/O	TT-101242		Sailor	1996	F-TA-193: PH3		Good
		Power Supply	TT-101122		Sailor	1996	F-TA-193: PH3		Good
		Power Input	TT-101241		Sailor	1996	F-TA-193: PH3		Good
		DSC Op. Position Term /PC							
		1) Personal Computer	Proline 466		Compaq	1996	F-TA-193: PH3		Good
		2) Monitor	140	532AF05CB190	Compaq	1996	F-TA-193: PH3		Good
		Printer (H-1252A)	TT-1608C	61AP3196142K	Sailor	1996	F-TA-193: PH3		Good
		Monitor Display	TT-3602B	9503549	Sailor	1996	F-TA-193: PH3		Good
		DSC Alarm	TT-1542B		Sailor	1996	F-TA-193: PH3		Good
5		Signal Control Panel							
		Audio/Digital Matrix	MTX-1616	145	Sailor	1996	F-TA-193: PH3		Good
		Keyer	KK-1	358	Sailor	1996	F-TA-193: PH3		Good
		Loudspeaker (2)	H2054		Sailor	1996	F-TA-193: PH3		Good
6		Telephone Repeater (Phone Pacth)							
		Radio/Tel I/F Unit	RTU-282	172	Sailor	1996	F-TA-193: PH3		Good
7		ARQ Equipment							
		Radiotelex Modem	TT-1585E	9603509	Sailor	1996	F-TA-193: PH3		Good
		ARQ Key Board	TT-1601 A	9603539	Sailor	1996	F-TA-193: PH3		Good
		Printer (H1252A)	TT-1680C	61AP3196192K	Sailor	1996	F-TA-193: PH3		Good
		Telex Alarm	TT-1542B		Sailor	1996	F-TA-193: PH3		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1-3		**VHF System**							
1-3-1		**VHF Transceiver**							
1		40W VHF Transceiver	FM-400	247666	1988	Furuno			Damaged
1-3-2		**VHF Operation Console**							
1		VHF Console	RH-16-1	012	Sailor	1996	F-TA-193: PH3		Good
2		Multichannel VHF Transceiver							
		VHF Transceiver	RT 2048	523733 (L)	Sailor	1996	F-TA-193: PH3		Good
		VHF Transceiver	RT 2048	523720 (H)	Sailor	1996	F-TA-193: PH3		Good
		VHF Transceiver	RT 2048	523685 (L)	Sailor	1996	F-TA-193: PH3		Good
		VHF Transceiver	RT 2048	523730 (H)	Sailor	1996	F-TA-193: PH3		Good
		Linier Power Amplifier	A2080BE-H	242	Sailor	1996	F-TA-193: PH3		Good
		Linier Power Amplifier	A2080BE-H	253	Sailor	1996	F-TA-193: PH3		Good
		Linier Power Amplifier	A2080BE-H	222	Sailor	1996	F-TA-193: PH3		Good
		Linier Power Amplifier	A2080BE-H	553	Sailor	1996	F-TA-193: PH3		Good
		Duplex Filter		594154	Sailor	1996	F-TA-193: PH3		Good
		Duplex Filter		594157	Sailor	1996	F-TA-193: PH3		Good
3		CH-70 VHF T/R							
		VHF Transceiver	RT2048	523705	Sailor	1996	F-TA-193: PH3		Good
		High Low I/F Unit (2)			Sailor	1996	F-TA-193: PH3		Good
		RF Power Amplifier	A2080BE-H	277	Sailor	1996	F-TA-193. PH3		Good
		AC Power Supply	N163S	S16311	Sailor	1996	F-TA-193: PH3		Good
		DC Power Supply	N420	N42011	Sailor	1996	F-TA-193: PH3		Good
		AC Power Supply	PSF-1	TWR/12770/03	Sailor	1996	F-TA-193: PH3		Good
5		Term Equipt. (DSC VHF/HF)							
		Audio/Digital Matrix	MTX-1616	140	Sailor	1996	F-TA-193: PH3		Good
6		Telephone Repeater							
		Radio/Tel I/F Unit	RTU-280	183	Sailor	1996	F-TA-193: PH3		Good
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
1		14 5mHx1 Tower	8.6cm Pipe						Good
2		20mHx1 Tower	14cm Pipe						Good
3		16.5mHx1 Tower	14.6cm Pipe						Good

INVENTORY

Site Name: Tahuna

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
4		30mH Self Supporting Structure	AT30SS		Sailor	1996	F-TA-193: PH3		Good
5		Lightning Protector			Sailor	1996	F-TA-193 PH3		Good
6		Grounding			Sailor	1996	F-TA-193: PH3		Good
2-2		**Antenna System**							
1		Double Antenna							
2		Inverted L Antenna TX (2)	HF7		Sailor	1996	F-TA-193: PH3		Good
3		VHF Antenna (3)	VHF 3		Sailor	1996	F-TA-193: PH3		Good
2-3		**Antenna Switch**							
1		Auto Antenna Tuner	AT-120		ICOM				Good
2		Antenna Distributor	AAD10/1/A-J1-6G	001012	Sailor	1996	F-TA-193: PH3		Good
3		**Power Supply Equipment**							
3-1		**Power Distribution Board**							
1		7.5kVA PDB for TX/RX			Sailor	1996	F-TA-193: PH3		Good
2		10 kVA Control Panel (AMF)	PL 95-7s	9517	Sailor	1996	F-TA-193: PH3		Good
3-2		**Isolation Transformer**							
1		7.5kVA, 4W, 3P	IST 10P3	9502	Sailor	1996	F-TA-193: PH3		Good
3-3		**Step-Up Transformer**							
1		Step-Up Trafo	SD-245						Good
2		9 9kVA, 4W, 3P	STU 10P3	9502	Sailor	1996	F-TA-193: PH3		Good
3-4		**UPS & AVR**							
1		Power Supply	CA-10105		Carlton				Good
2		Power Supply	PS-8930		Vedio				Good
3		Battery 12V, 200AH			Yuasa				Good
4		Battery 6V & 12V			Yoko				Good
5		AVR	1KGX	K.102					Good
6		AVR : 7.5kVA, 3P, 4W	AVR 7P3	9508	Sailor	1996	F-TA-193: PH3		Good
3-5		**Engine Generator**							
1		Generator 220V, 1P, 0.3kVA	E-300		Honda	1972			Good
2		7.5 kVA, 380V,3P, 4W E/G							
		Engine	EG 10 RA	584142	Sailor	1996	F-TA-193: PH3		Good
		Generator	V-1505E	CO51684/3	Sailor	1996	F-TA-193· PH3		Good
		E/G Panel	BC1-164-D	9513	Sailor	1996	F-TA-193. PH3		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3		Fuel System							
		Starting, Fuel, Exhaust System			Sailor	1996	F-TA-193: PH3		Good
		100 L Fuel Day Tank			Sailor	1996	F-TA-193: PH3		Good
		Fuel Control Unit			Sailor	1996	F-TA-193: PH3		Good
		1000 L Fuel Storage Tank			Sailor	1996	F-TA-193. PH3		Good
4		**Measuring Equipment**							
1		Analog Oscilloscope	PM3065	DM639019	Sailor	1996	F-TA-193: PH3		Good
		Plobe/Lead (2)							
		Power Cable (1)							
		Black Cover (1)							
		Operation Manual (1)							
2		Fluke 87 Multimeter		64510747	Sailor	1996	F-TA-193: PH3		Good
3		Fluke 87 Multimeter		64510748	Sailor	1996	F-TA-193. PH3		Good
4		Fluke 87 Multimeter		64510749	Sailor	1996	F-TA-193: PH3		Good
		Test Lead Set (3x1)							
		Hoester House Yellow (3x1)							
		User Manual (3x2)							
5		Insulation Tester	2406A	2589	Sailor	1996	F-TA-193: PH3		Good
		Line Plobe (1)							
		Earth Plobe (1)							
		Carrying Case (1)							
		Instruction Manual (1)							
6		RF Coaxial Load Resistor	8201	17086	Sailor	1996	F-TA-193: PH3		Good
7		RF Coaxial Load Resistor	8201	17093	Sailor	1996	F-TA-193: PH3		Good
		Connection Cable (2x1)							
5		**Others**							
1		Fire Tube							Good
2		Type Writter							Good
3		Fan (2)							Good
4		Telephone set with call timer (2)			Sailor	1996	F-TA-193: PH3		Good
5		Headset (2)	DM 811		Sailor	1996	F-TA-193: PH3		Good

INVENTORY

Site Name: Tahuna

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
6		Hand set (6)			Sailor	1996	F-TA-193: PH3		Good
7		Desk Microphone (2)	DM 6500		Sailor	1996	F-TA-193: PH3		Good
8		Morse Key			Sailor	1996	F-TA-193: PH3		Good
9		Quartz Clock			Sailor	1996	F-TA-193: PH3		Good
10		Service Engineer Kit	RS 541-365		Sailor	1996	F-TA-193: PH3		Good
11		Mouse			Sailor	1996	F-TA-193: PH3		Good
12		Chair			Sailor	1996	F-TA-193: PH3		Good

STATUS OF TROUBLES

SITE NAME : TAHUNA **THN-180-(1/1)**

Item / Equipment	MF/HF Equipment, AC Power Supply / -		
Manufacturer	Sailor		
Manufacturer in year	1996		
Defective panel / unit	Transmitter		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☐ Aging		☑ Immediacy
	☐ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☑ Others		

General Comment for Maintenance:

For DSC is needed Computer
Needed Air Conditioner
Request for completed by fire engine

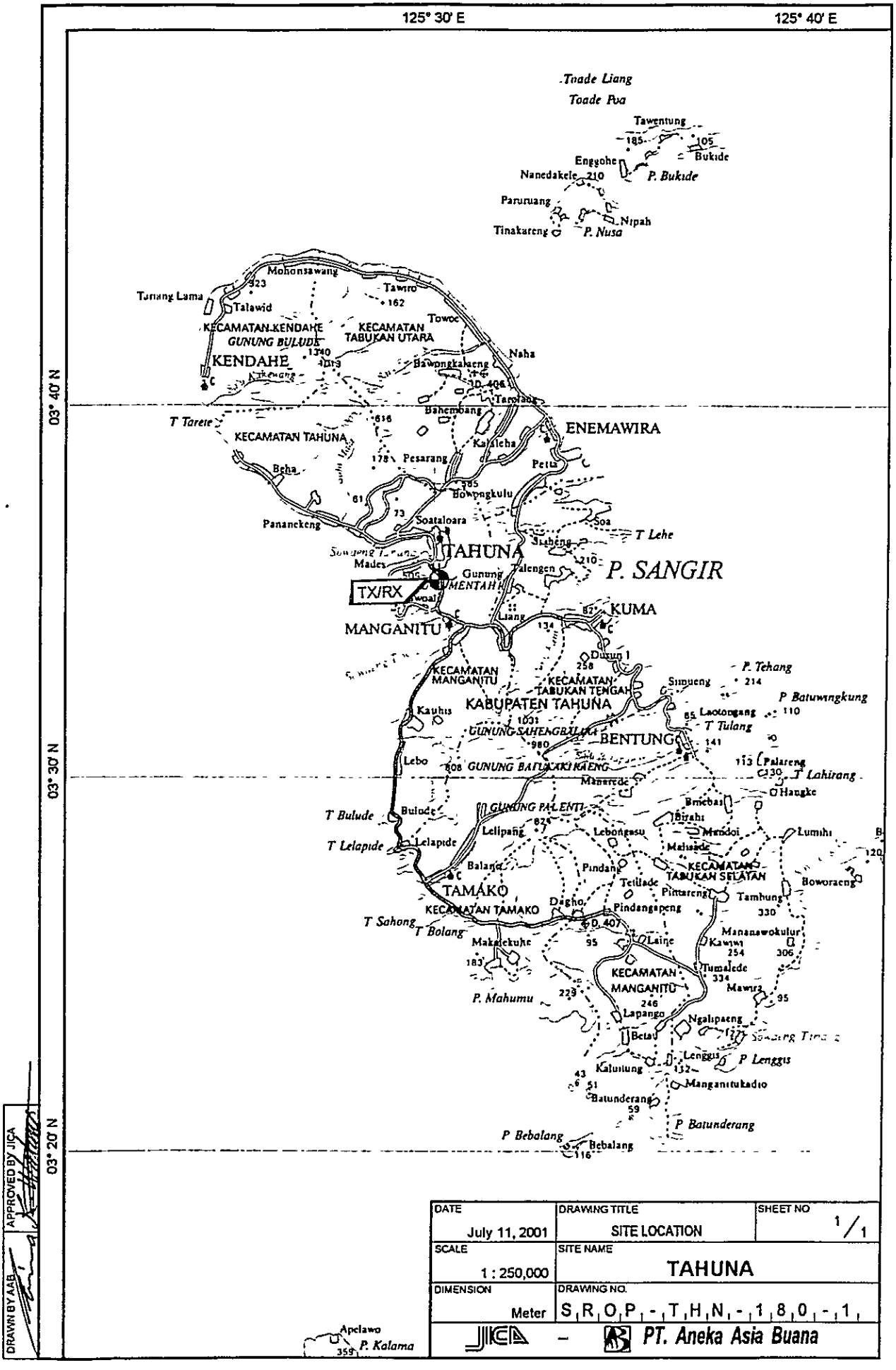
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Tahuna

THN-180-(1/1)

Call Sign : Mobile Service : PKM.25
Fix Service .

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2 182,0	J3E	100		
2	2 090,0	J3E	100		
3	2 690,0	J3E	100		
4	6 215,0	J3E	100		
5	6 209,0	J3E	100		
6	6 510,0	J3E	100		
7	2.187,5	J3E	100		
8	2 174,5	J3E	100		
9	2 189,5	J3E	100		
10	6 284,0	J3E	100		
11	6 312,5	J3E	100		
12	8 385,0	J3E	100		
	VHF Service				
13	156,8	G3E	40		
14	157,0	G3E	40		
15	161,6	G3E	40		
16	161,7	G3E	40		
17	156,5	G3E	40		
	Fix Service				
18	5 381,5	J3E	100		
19	9 110,0	J3E	100		
20					
21					
22					
23					



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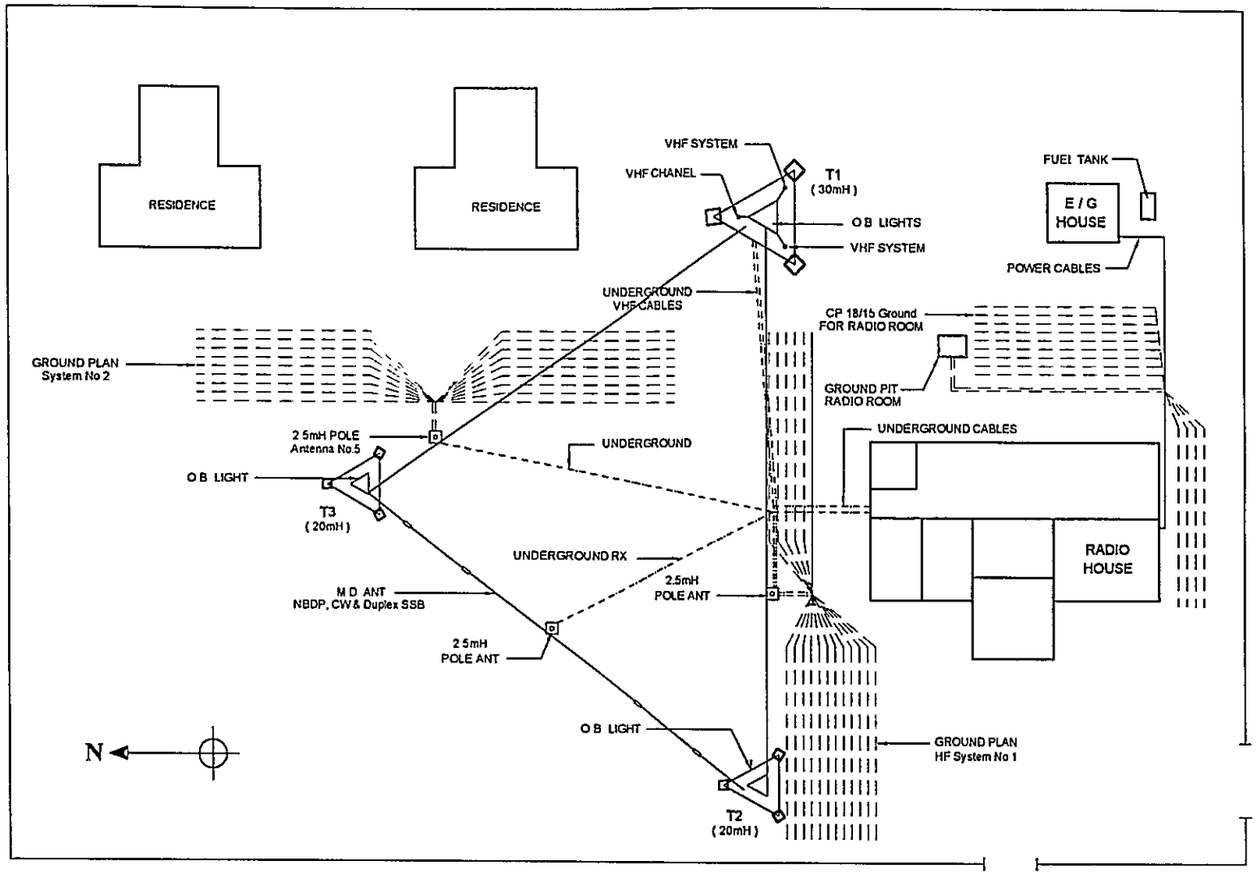
DIMENSION: Meter	DRAWING NO.: S,R,O,P,-,T,H,N,-,1,8,0,-,1,	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB
APPROVED BY JICA



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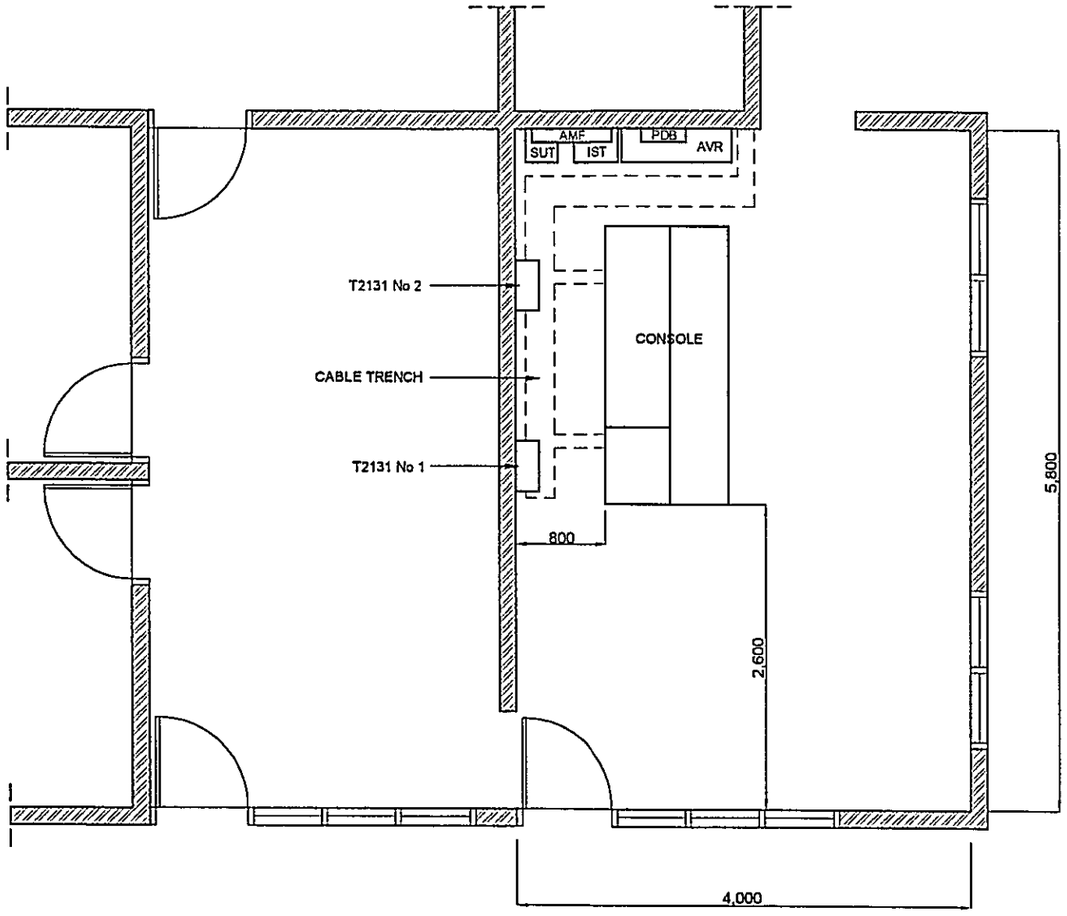
APPROVED BY JICA

DATE: July 11, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: TAHUNA	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,T,H,N,-,1,8,0,-,2,	

JICA – PT. Aneka Asia Buana



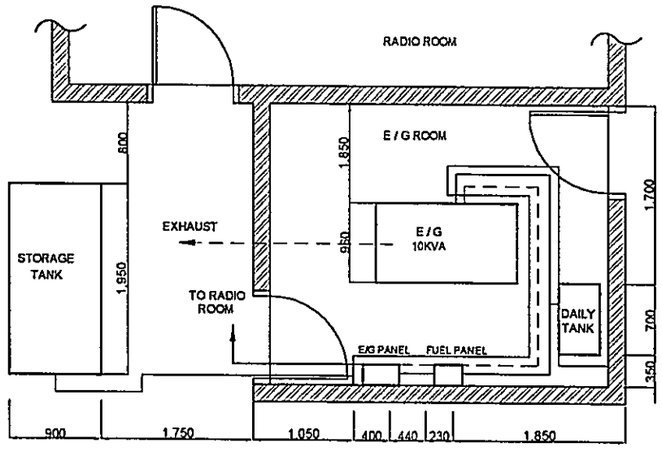
LEGEND

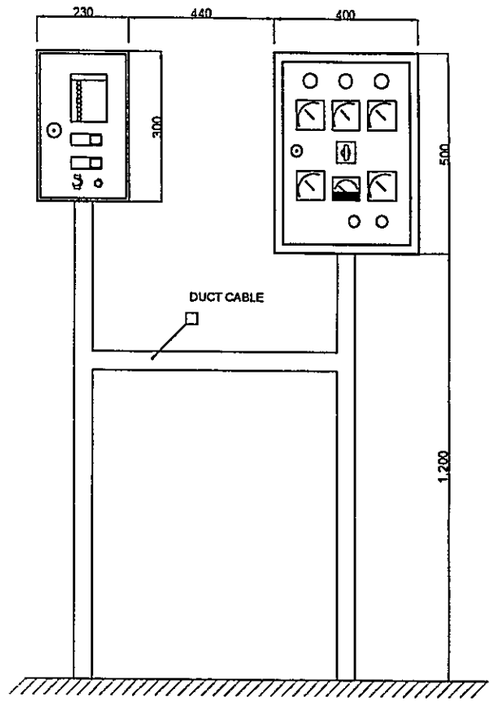
AVR : AUTOMATIC VOLTAGE REGULATOR
IST : ISOLATION TRANSFORMER
PDB : POWER DISTRIBUTION BOARD
SUT : STEP - UP TRANSFORMER

DRAWN BY JAAP
APPROVED BY JICA:

DATE: July 11, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: TAHUNA	
DIMENSION: Milimeter	DRAWING NO.: SROP-THN-180-3	

JICA – PT. Aneka Asia Buana

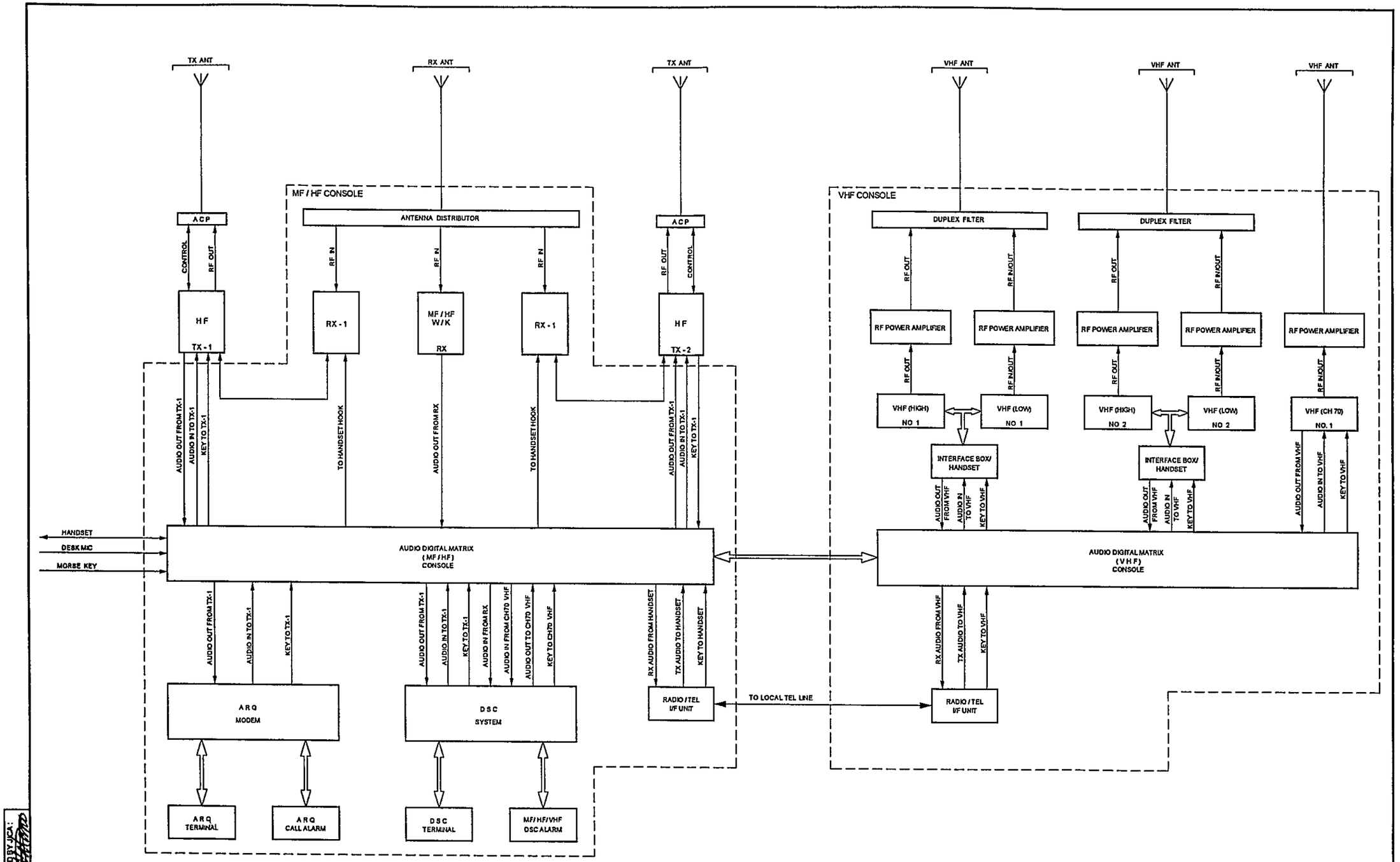




APPROVED BY JICA:

DRAWN BY AAB

DATE: July 11, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 50	SITE NAME: TAHUNA	
DIMENSION: Milimeter	DRAWING NO: SROP-THN-180-4	
JICA –	PT. Aneka Asia Buana	



LEGEND

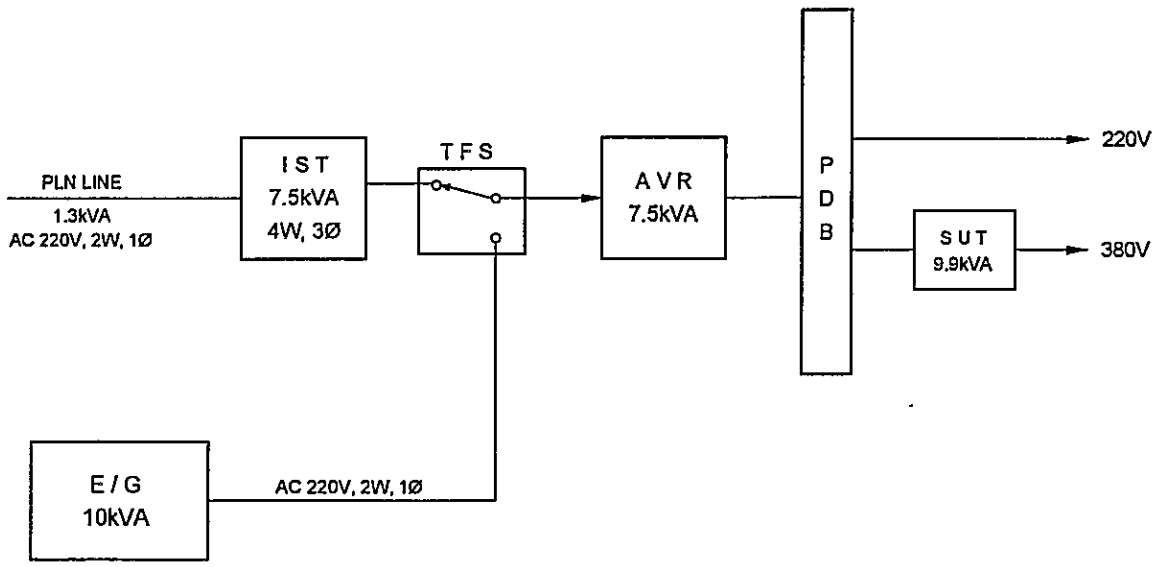
ACP	ANTENNA COUPLER
ANT	: ANTENNA
DSC	. DIGITAL SELECTIVE CALLING
HF	: HIGH FREQUENCY
MF	: MEDIUM FREQUENCY
RX	RECEIVER (ING)
TX	: TRANSMITTER (ING)
VHF	: VERY HIGH FREQUENCY

APPROVED BY JICA :

DRAWN BY AAB :

DATE: August 02, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: TAHUNA	
DIMENSION: Millmeter	DRAWING NO: S,R,O,P,-,T,H,N,-,1,8,0,-,5,	

JICA – PT. Aneka Asia Buana



LEGEND

AC	ALTERNATING CURRENT
AVR	AUTOMATIC VOLTAGE REGULATOR
E/G	ENGINE GENERATOR
HF	HIGH FREQUENCY
IST	ISOLATION TRANSFORMER
kVA	KILO VOLT AMPERE
SUT	STEP UP TRANSFORMER
TFS	TRANSFER SWITCH
TRX	TRANSCEIVER (ING)
V	VOLT
W	WIRE
Ø	PHASE

APPROVED BY JICA

DRAWN BY AAB

DATE: August 02, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: TAHUNA	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,T,H,N,-,1,8,0,-,6,	
JICA –	PT. Aneka Asia Buana	

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-A Class Coast Station

Parigi

(Coast Station No. 181)

Table of Content

- ☑ Summary of Coast Station
- ☑ Inventory
- ☑ Status of Trouble
- ☑ Operation Schedule (Frequencies)

TRX Drawings:

- ☑ Site Location
- ☑ Antenna Layout
- ☑ Equipment Floor Layout
- ☐ E/G Floor Layout
- ☑ System Block Diagram
- ☑ Power Block Diagram

Note :

- ☑ Available in this list
- ☒ Not Available in this list
- ☐ Unnecessary in this list
- * Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	PARIGI		
CLASS	4th-A	NO.	181

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelabuhan Parigi	21005		120° 10′ 45″ E	00° 48′ 45″ S

2. GENERAL CONDITIONS

Moving from Jakarta				Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Palu	[Taking time	5.00 hr]	☐ Highway	☐ Heavy	☐ Hotel	85,238
By Car	to Parigi	[Taking time	2.00 hr.]	☑ Paved	☑ Medium	☑ Motel	
				☐ Unpaved road	☐ Light		
					☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system	
☐ Flat	☑ Dry soil	☐ Limestone	☐ Flood	Yes	No
☑ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑ Antenna	☐
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☑ Towers (Masts)	☐
☐ Basin	☐ Clay		☐ Ground Subsidence	☑ Grounding system	☐
☐ Valley	☐ Sandy			☑ Lightning system	☐
Altitude	3.00 **M**		**Telephone Lines**	☐	☑ Feeder Cable Way
Land area	120.00 **m²**		☑ 1 Lines	☐	☑ City water

3.2 Building Conditions

Constructions	
Num of story	One
Structure	Concrete
Type of roof	Zinc
Type of ceiling	Triplex
Type of wall	Brick
Wall finish	Mortar
Flooring	Tile

Room Area (m²)	
Operation room	24.00
E / G room	
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	V
Phase	1	
Wire	2	
kVA	0.9	

Quality of PLN source		
Fluctuations	V ± %	
Availability of power per day	24 Hours	
Power interruption /month	12 Times	
Total interpt. hours /month	24 Hours	
Max. interpt. hours at once	7 Hours	

Existing Power Conditions		
Good	Bad	
☑	☐	Power Supply System
☐	☐	Operations of E/G
☐	☐	Operations of AVR

Capacity of fuel for engine	
Day tank	Liter
Main tank	k Liter

E/G Stand-by System	
☐	Single System
☐	Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Repaired in Disnav Bitung
Examples of major failure	
Sufficiency of spares	

Records of damages		Environmental Conditions		
		Good	Bad	
☐ Heavy rainfall				
☐ Storm		☑	☐	External noises
☐ Lightning		☑	☐	Air pollution
☐ Other calamity				

Institutional and Human Statuses				
1	Budget	☐ Sufficient	☐ Reasonable	☑ Insufficient
2	Spares	☐ Enough	☐ Reasonable	☑ Not enough
3	Measuring eqpt./tools	☐ Enough	☐ Reasonable	☑ Not enough
4	Number of Operator	☐ Enough	☑ Reasonable	☐ Not enough
5	Number of Technician	☐ Enough	☐ Reasonable	☑ Not enough
6	Capability of Operator	☐ Skilled	☑ Not so bad	☐ Not capable
7	Capability of Technician	☐ Skilled	☐ Not so bad	☑ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief	1	
Operator (skilled)	1 ()	()
Technician (skilled)	()	()
Administrator		
T o t a l	2	

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	PARIGI		
CLASS	4th-A	NO.	181

6. STATISTICAL COMMUNICATION TRAFFIC DATA

Maritime Safety					Public Telecommunication Service							
Years	TG	TEL	DSC	NBDP	Years	Telephone		TG Call	Years	Telephone		TG Call
						Call	Minute			Call	Minute	
1996					1991				1996			
1997					1992			1	1997			
1998					1993				1998			
1999					1994				1999			
2000					1995				2000			

7. COMMENTS

Suggestion	Request for GMDSS installation, and additional personnel as Class-IVA Request for new building/office to support the above request equipment
Remarks	

INVENTORY

Site Name: Parigi

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		HF Transceiver	IC-M700	01271	ICOM	1993			Good
2		HF Transceiver JSB-50	NTD-177	BS-14329	Japan	1974			Damaged
1-2		**VHF System**							
1		VHF Transceiver	FM-400H	24769	ICOM	1990			Good
2		**Tower & Antenna System**							
2-2		**Antenna System**							
1		TX/RX Antenna			Japan	1993			
2		VHF TX/RX Antenna			Japan	1993			
3		Pole Antenna (2)	Cylinder		JRC	1996			
2-2		**Antenna Switch**							
1		Automatic Antenna Tuner	AT-120		Japan	1990			Good
3		**Power Supply Equipment**							
3-1		**UPS & AVR System**							
1		Power Supply HF	PS-8930	783027	ICOM	1993			Good
2		Power Supply HF	NBA-90IC	BS-74826	JRC	1974			Damaged
3		Power Supply VHF	CA-1010S		Carlton	1990			Good
4		**Others**							
1		RX/TX Transceiver Desk				1974			
2		Administration Desk				1976			
3		Chair				1976			
4		Tipewriter (1)				1976			
5		Filling Cabinet				1976			
6		Rack				1980			
7		Digital Telephone				1985			
8		Clock			Seiko	1974			

STATUS OF TROUBLES

SITE NAME : PARIGI **PRG-181-(1/1)**

Item / Equipment	DC Power Supply / -		
Manufacturer	-		
Manufacturer in year	-		
Defective panel / unit	Transformer		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☐ Aging		☑ Immediacy
	☐ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☑ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

Power supply damaged, because it is not completed with electric fan
Parigi Coast Station does not completed by spare transceiver, therefore if trouble with transceiver - there is no broadcast
Request for new Parigi Coast Station

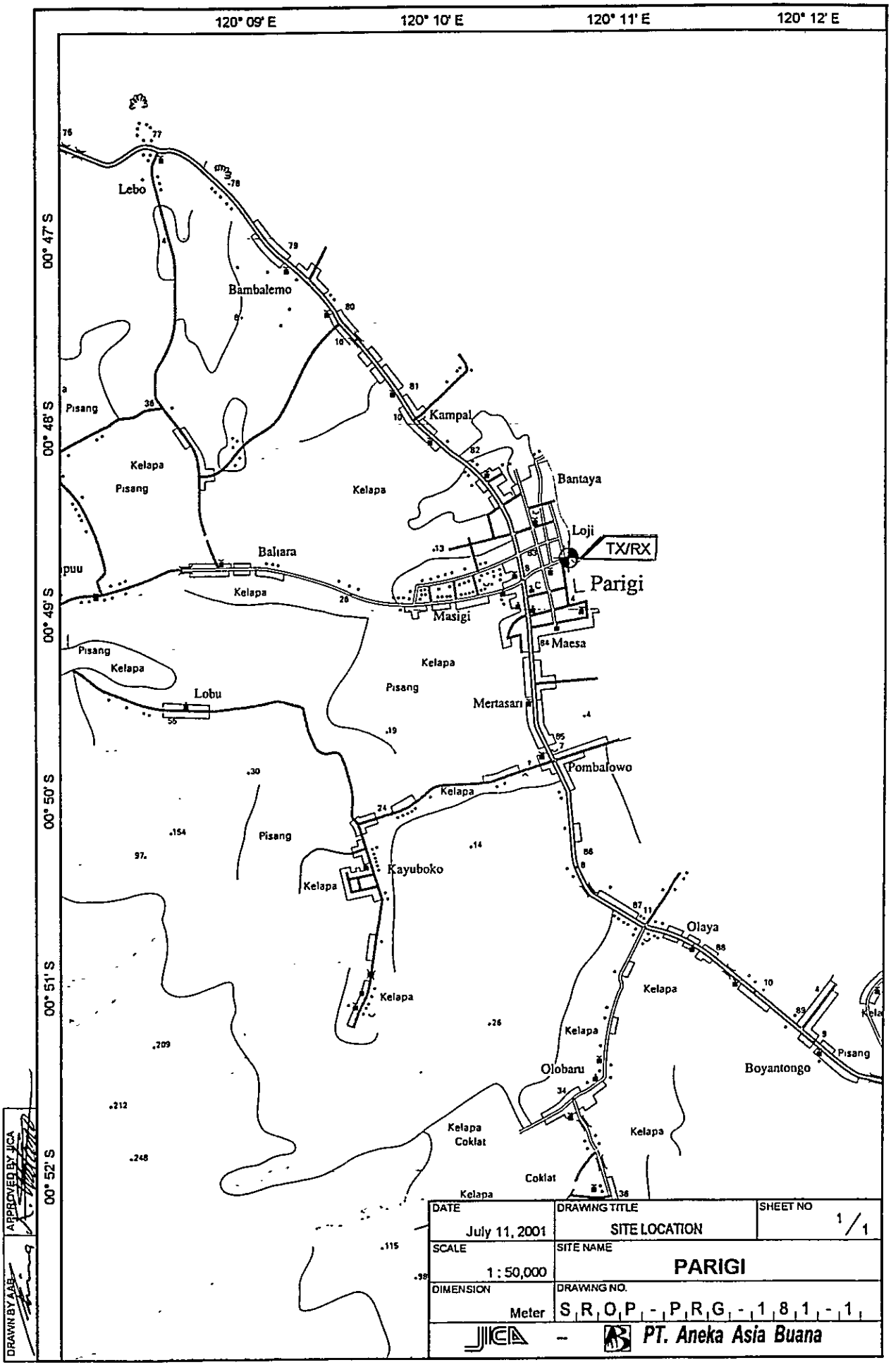
OPERATION SCHEDULE (FREQUENCIES)

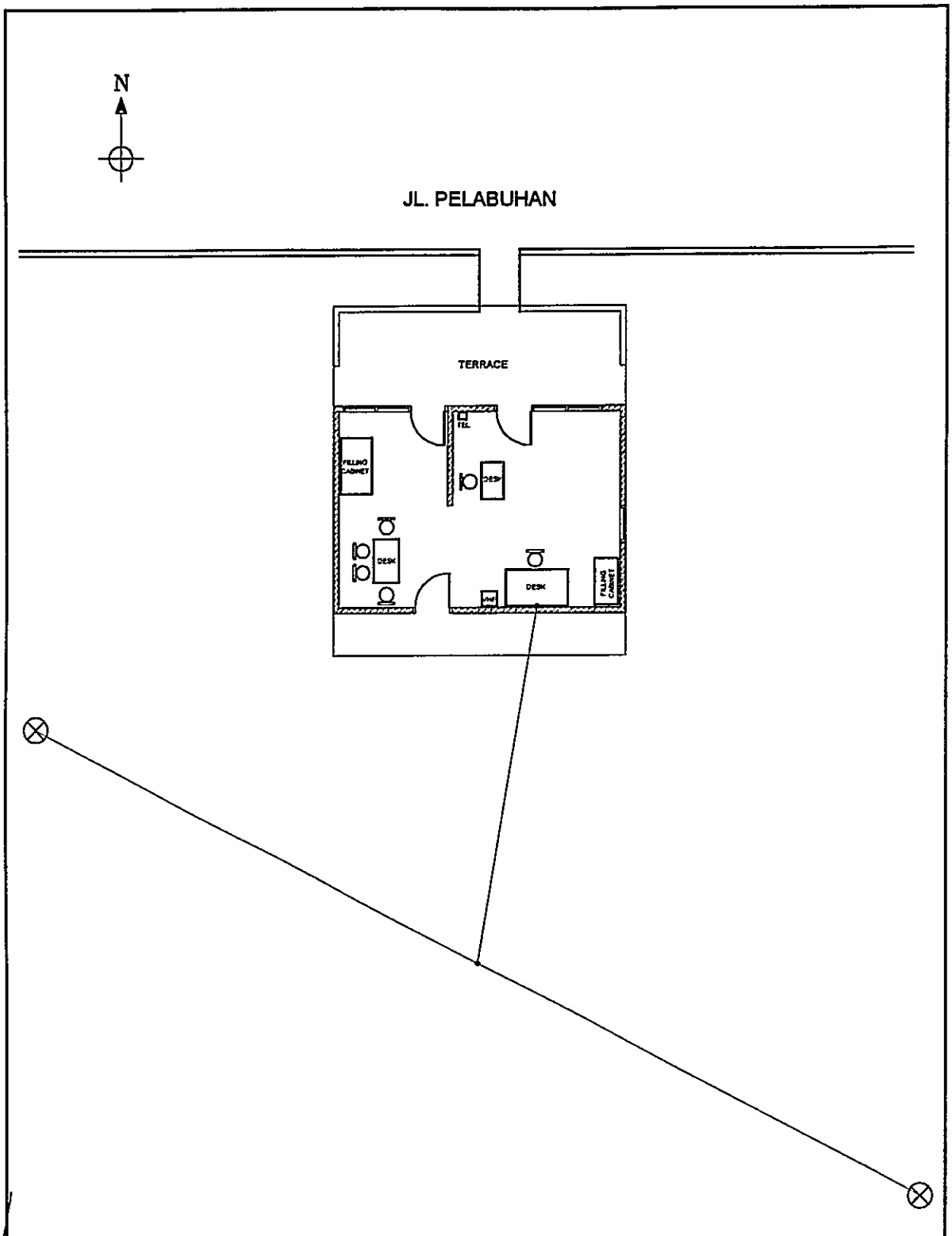
Site Name: Parigi

PRG-181-(1/1)

Call Sign : Mobile Service : PKM.4
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2 182,0	J3E	100		
2	2 080,0	J3E	100		
3	3 180,0	J3E	100		
4	6 209,0	J3E	100		
5	6 510,0	J3E	100		
6	6 209,0	J3E	100		
7	6 515,7	J3E	100		
8	6.215,0	J3E	100		
	VHF Service				
9	156,600	F3E	50		
10	156,650	F3E	50		
11	156,700	F3E	50		
12	156,800	F3E	50		
13	161,500	F3E	50		
14	160,700	F3E	50		
	Fix Service				
15	9 110,0	J3E	100		
16	5 381,0	J3E	100		
17	6 921,0	J3E	100		
18	6 926,0	J3E	100		
19	444,5	J3E	100		
20	4 446,5	J3E	100		
21					
22					
23					

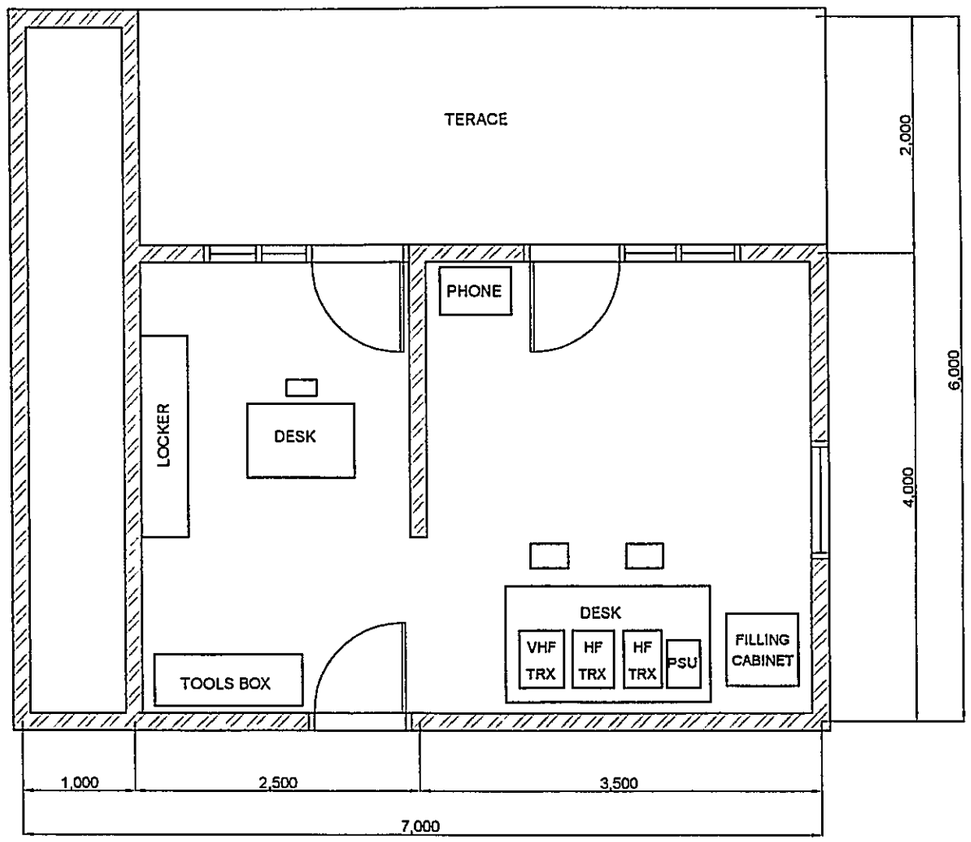

120° 09' E
120° 10' E
120° 11' E
120° 12' E
00° 47' S
00° 48' S
00° 49' S
00° 50' S
00° 51' S
00° 52' S
Lebo
Bambalemo
Kampal
Bantaya
Loji
TX/RX
Parigi
Baliara
Masigi
Maesa
Mertasari
Pombalowo
Lobu
Kayuboko
Olaya
Olobaru
Boyantongo
Pisang
Kelapa
Kelapa Coklat
Coklat
APPROVED BY JICA
DRAWN BY AAB
DATE
July 11, 2001
DRAWING TITLE
SITE LOCATION
SHEET NO
1/1
SCALE
1 : 50,000
SITE NAME
PARIGI
DIMENSION
Meter
DRAWING NO.
SROP-PRG-181-1
JICA
PT. Aneka Asia Buana



DRAWN BY AAB

APPROVED BY JICA

DATE: August 03, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 :100	SITE NAME: **PARIGI**	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,P,R,G,-,1,8,1,-,2,	
JICA –	PT. Aneka Asia Buana	



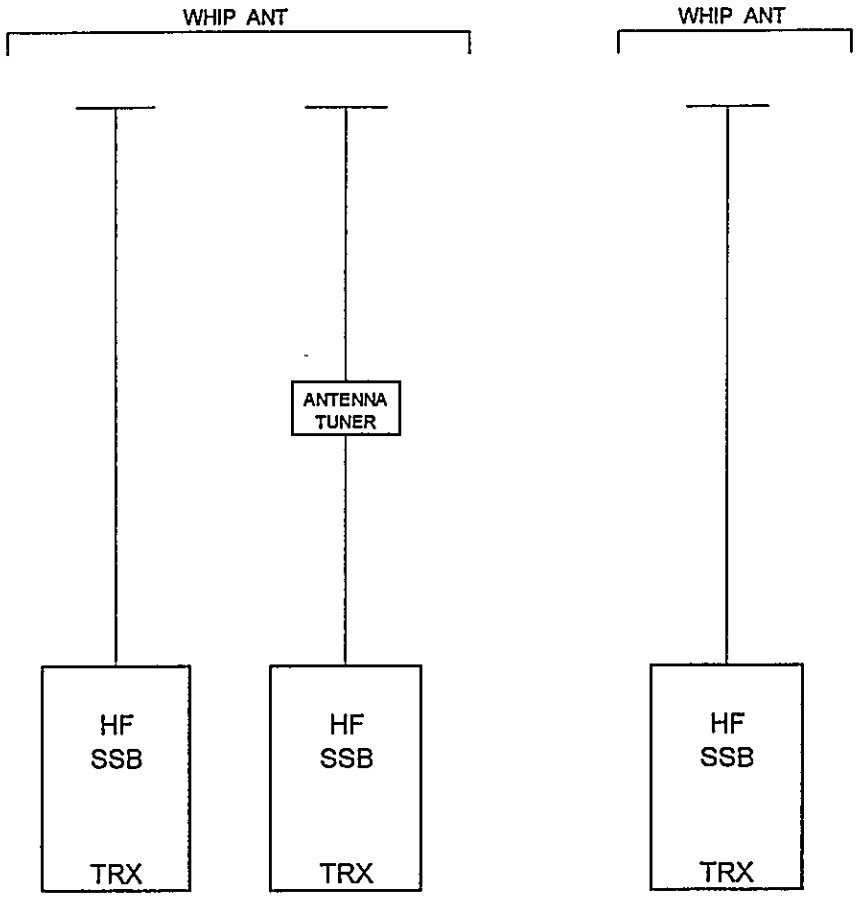
LEGEND

HF : HIGH FREQUENCY
PSU : POWER SUPPLY UNIT
TRX : TRANSCEIVER (ING)
VHF : VERY HIGH FREQUENCY

APPROVED BY JICA :

DRAWN BY :

DATE: July 11, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 50	SITE NAME: PARIGI	
DIMENSION: Milimeter	DRAWING NO: SROP-PRG-181-3	
JICA –	PT. Aneka Asia Buana	



APPROVED BY JICA

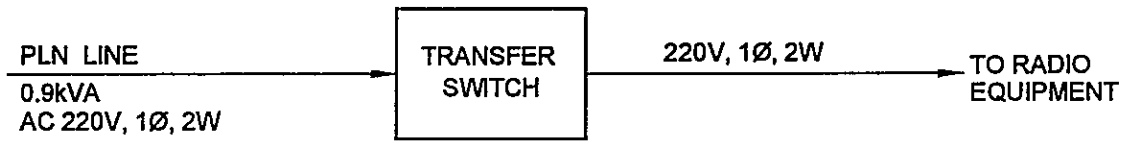
DRAWN BY AAB

LEGEND

ANT ANTENNA
ATU : ANTENNA TUNER UNIT
HF : HIGH FREQUENCY
TRX : TRANSCEIVER (ING)
VHF : VERY HIGH FREQUENCY

DATE	DRAWING TITLE	SHEET NO
August 03, 2001	SYSTEM BLOCK DIAGRAM	1/1
SCALE: No Scale	SITE NAME: PARIGI	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,P,R,G,-,1,8,1,-,5,	

JICA – PT. Aneka Asia Buana



APPROVED BY JICA :

DRAWN BY AAB

DATE: July 11, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: PARIGI	
DIMENSION: Milimeter	DRAWING NO.: SROP-PRG-181-6	
JICA – PT. Aneka Asia Buana		

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-A Class Coast Station
Kolonedale
(Coast Station No. 182)

Table of Content

Note :
- ☑ Available in this list
- ☒ Not Available in this list
- ☐ Unnecessary in this list
- * Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	KOLONEDALE		
CLASS	4th-A	NO.	182

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Bumi Nangka No. 123	465-21028		121° 20′ 10″ E	01° 58′ 50″ S

2. GENERAL CONDITIONS

Moving from Jakarta				Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Palu	[Taking time:	4:00 hr.]	☐ Highway	☐ Heavy	☐ Hotel	
By Car	to Poso	[Taking time:	5:00 hr.]	☑ Paved	☐ Medium	☑ Motel	
By Car	to Kolonedale	[Taking time:	5:00 hr.]	☐ Unpaved road	☑ Light		
					☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system	
☐ Flat	☑ Dry soil	☐ Limestone	☐ Flood	Yes	No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑ Antenna	☐
☑ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐ Towers (Masts)	☑
☐ Basin	☐ Clay		☐ Ground Subsidence	☑ Grounding system	☐
☐ Valley	☐ Sandy			☑ Lightning system	☐
Altitude	20.00 **M**		**Telephone Lines**	☐ Feeder Cable Way	☑
Land area	660.00 **m²**		☑ 1 Lines	☐ City water	☑

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Zinc
Type of ceiling	Triplex
Type of wall	Brick
Wall finish	Mortar
Flooring	Tile
Room Area (m²)	
Operation room	30.00
E / G room	12.00
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	1	1
Wire	2	2
kVA	3.5	3

Quality of PLN source		
Fluctuations	V ± %	
Availability of power per day	24 Hours	
Power interruption /month	2 Times	
Total interpt. hours /month	10 Hours	
Max. interpt. hours at once	6 Hours	

Existing Power Conditions	Good	Bad
Power Supply System	☑	☐
Operations of E/G	☑	☐
Operations of AVR	☐	☐

Capacity of fuel for engine	
Day tank	5 Liter
Main tank	0.2 k Liter

E/G Stand-by System

☑ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure

Restoration flow	Repaired in Disnav Bitung
Examples of major failure	
Sufficiency of spares	

Records of damages		Environmental Conditions	Good	Bad	
☐ Heavy rainfall					
☐ Storm			☑	☐	External noises
☑ Lightning	HF Transceiver		☑	☐	Air pollution
☐ Other calamity					

Institutional and Human Statuses

1	Budget	☐ Sufficient	☐ Reasonable	☑ Insufficient
2	Spares	☐ Enough	☐ Reasonable	☑ Not enough
3	Measuring eqpt./tools	☐ Enough	☐ Reasonable	☑ Not enough
4	Number of Operator	☐ Enough	☑ Reasonable	☐ Not enough
5	Number of Technician	☐ Enough	☐ Reasonable	☑ Not enough
6	Capability of Operator	☐ Skilled	☑ Not so bad	☐ Not capable
7	Capability of Technician	☐ Skilled	☐ Not so bad	☑ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief	1	
Operator (skilled)	1 (1)	()
Technician (skilled)	()	()
Administrator		
T o t a l	2	

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	KOLONEDALE		
CLASS	4th-A	NO.	182

6. STATISTICAL COMMUNICATION TRAFFIC DATA

Maritime Safety					Public Telecommunication Service							
Years	TG	TEL	DSC	NBDP	Years	Telephone		TG Call	Years	Telephone		TG Call
						Call	Minute			Call	Minute	
1996					1991				1996			47
1997					1992				1997			50
1998					1993			10	1998			27
1999					1994			52	1999			29
2000					1995			23	2000			21

7. COMMENTS

Suggestion	Request for GMDSS facility
Remarks	

INVENTORY

Site Name: Kolonodale

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		SSB Transceiver Icom	IC-M700	4912	ICOM	1990			Damaged
2		SSB Transceiver Icom	IC-M700	6040	ICOM	1995			Damaged
3		SSB Transceiver Icom	IC-M700	51590	ICOM	1996			Good
1-2		**VHF System**							
1		VHF Transceiver	FM-400	245399	Furuno	1991			
2		**Tower & Antenna System**							
2-1		**Antenna System**							
1		VHF Antenna	L Antenna		Furuno	1991			
2		Single Doublet Antenna (2)				1995			
2-2		**Antenna Switch**							
1		Automatic Antenna Tuner	AT-120		ICOM	1991			
2		Automatic Antenna Tuner	AT-120		ICOM	1995			
3		**Power Supply Equipment**							
3-1		**UPS & AVR System**							
1		Acumulator (1) 200AH			GS	1995			
2		Accu Charger	BC-500		Lancer	1995			
3		Accu Charger	HR-245		Delta	1996			Good
3-2		**Engine Generator**							
1		Engine	RD-65H		Kubota	1995			Good
2		Generator 3KVA	ST-3	WF-F7108		1995			
4		**Measuring Equipment**							
1		Multi Meter	YX-360TRS		Sanwa	1991			
5		**Others**							
1		Air Conditioner (Split)			Sharp	1995			

STATUS OF TROUBLES

SITE NAME : KOLONEDALE **KND-182-(1/1)**

Item / Equipment	HF Transceiver / -		
Manufacturer	Icom		
Manufacturer in year	1995		
Defective panel / unit	Receiver		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☐ Aging		☑ Immediacy
	☑ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

Radio and Generator must be routine maintenance
Heavily damaged, repaired by technician Disnav Manado/Bitung

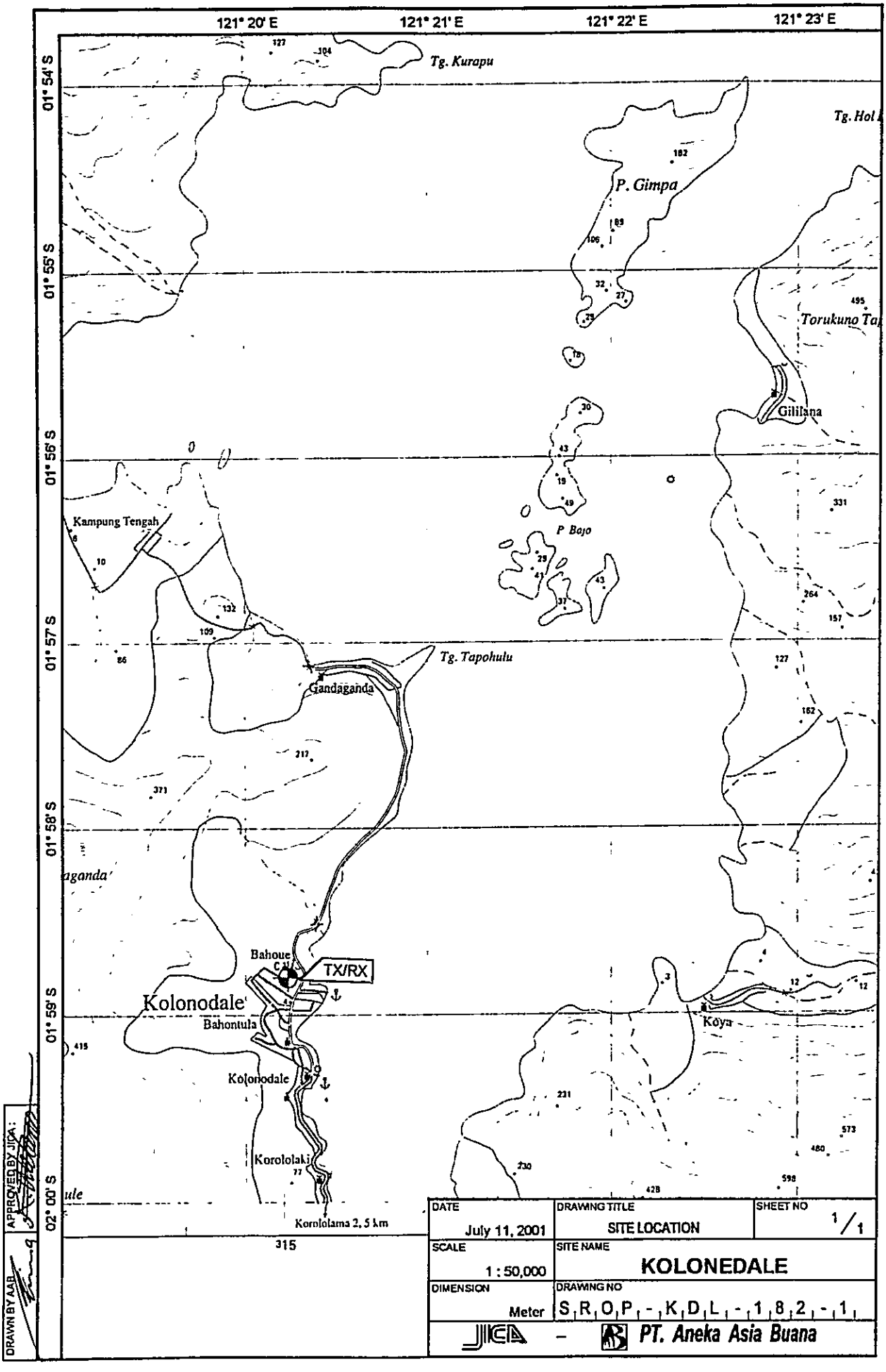
OPERATION SCHEDULE (FREQUENCIES)

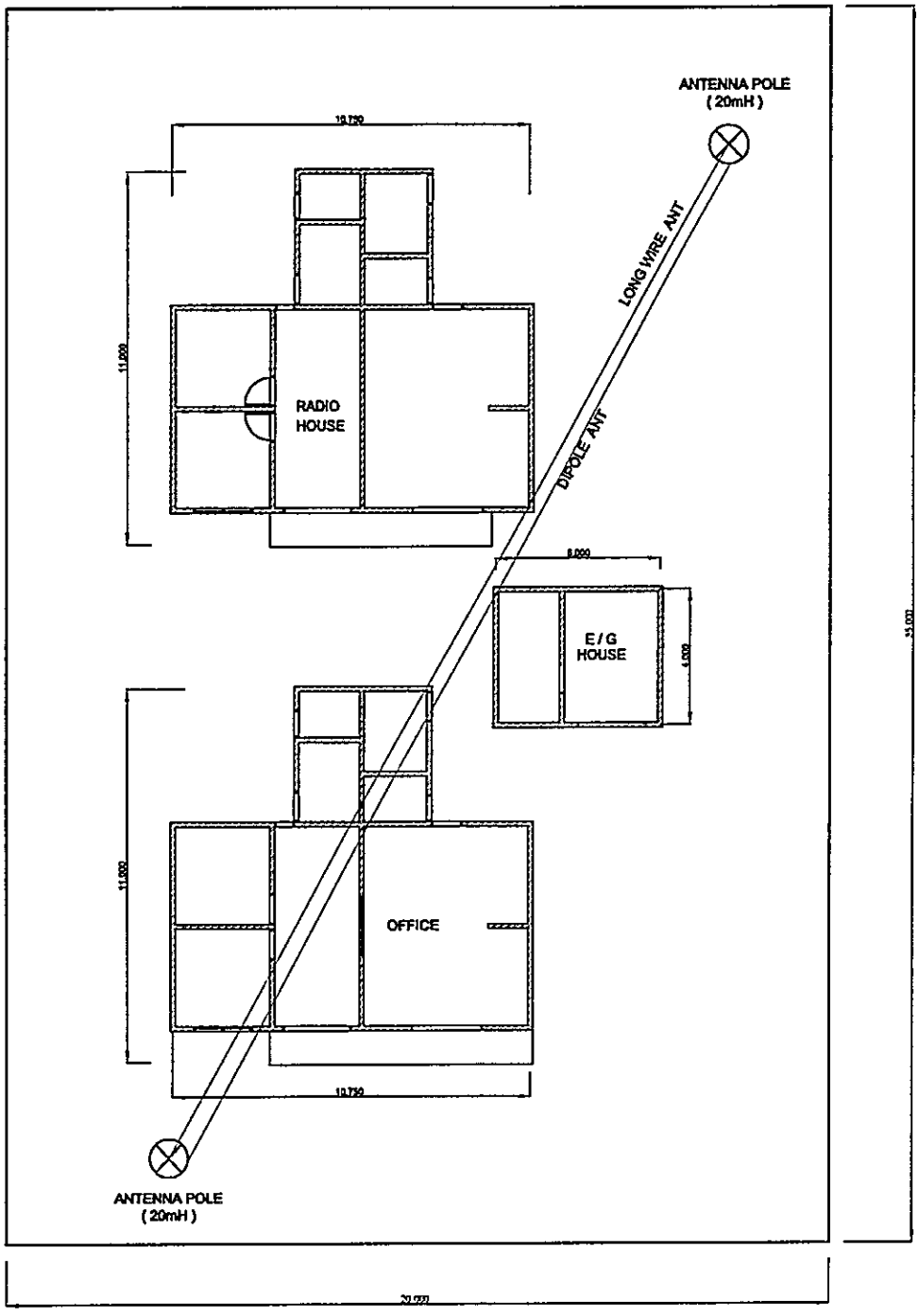
Site Name: Kolonedale

KND-182-(1/1)

Call Sign : Mobile Service : PKF.37
Fix Service :

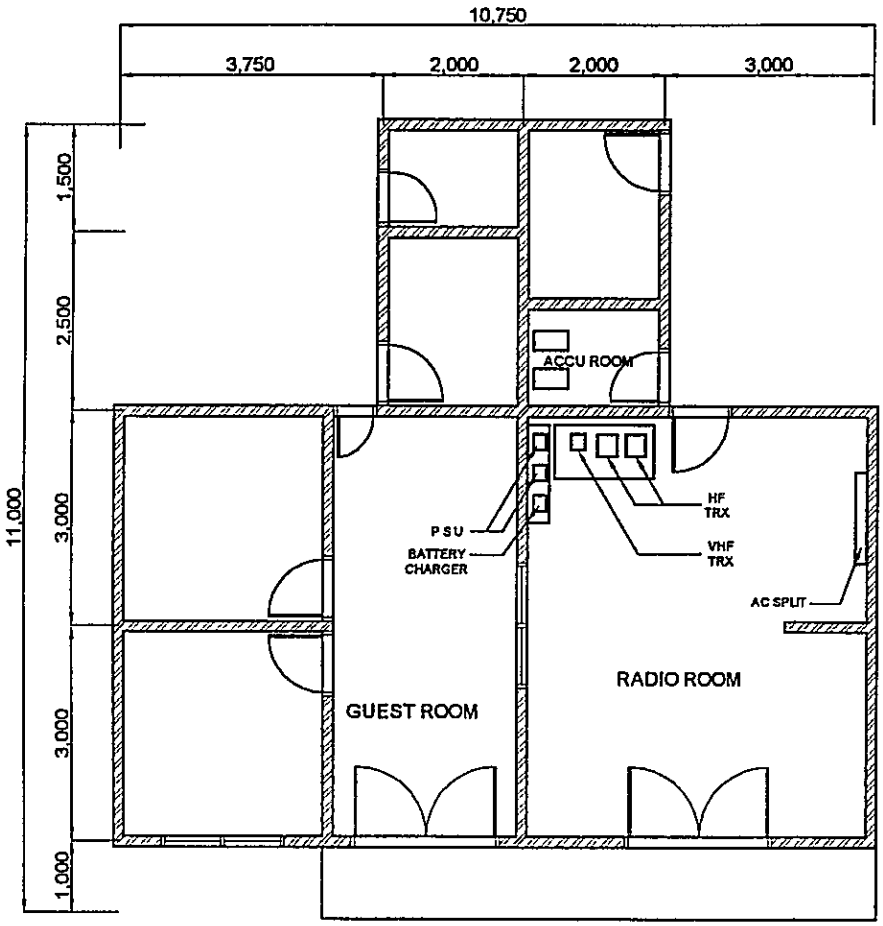
	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2 182,0	J3E	150		
2	6.215,0	J3E	150		
3	6 510,0	J3E	150		
4	6 209,0	J3E	150		
	VHF Service				
5	Channel-16	G3E	40		
	Fix Service				
6	5 381,5	J3E	150		
7	9 110,0	J3E	150		
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					


121° 20' E
121° 21' E
121° 22' E
121° 23' E
01° 54' S
01° 55' S
01° 56' S
01° 57' S
01° 58' S
01° 59' S
02° 00' S
Tg. Kurapu
Tg. Hol
P. Gimpa
Torukuno Ta
Gililana
P Bajo
Kampung Tengah
Tg. Tapohulu
Gandaganda
Bahoue
TX/RX
Kolonodale
Bahontula
Kolonodale
Kororolaki
Kororolama 2, 5 km
Koya
315
APPROVED BY JICA :
DRAWN BY AAB
DATE
July 11, 2001
DRAWING TITLE
SITE LOCATION
SHEET NO
1/1
SCALE
1 : 50,000
SITE NAME
KOLONEDALE
DIMENSION
Meter
DRAWING NO
S,R,O,P,-,K,D,L,-,1,8,2,-,1
JICA
PT. Aneka Asia Buana



DATE: July 11, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO.: 1 / 1
SCALE: 1 : 200	SITE NAME: KOLONEDALE	
DIMENSION: Milimeter	DRAWING NO.: S R O P - K D L - 1 8 2 - 2	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB: APPROVED BY JICA:



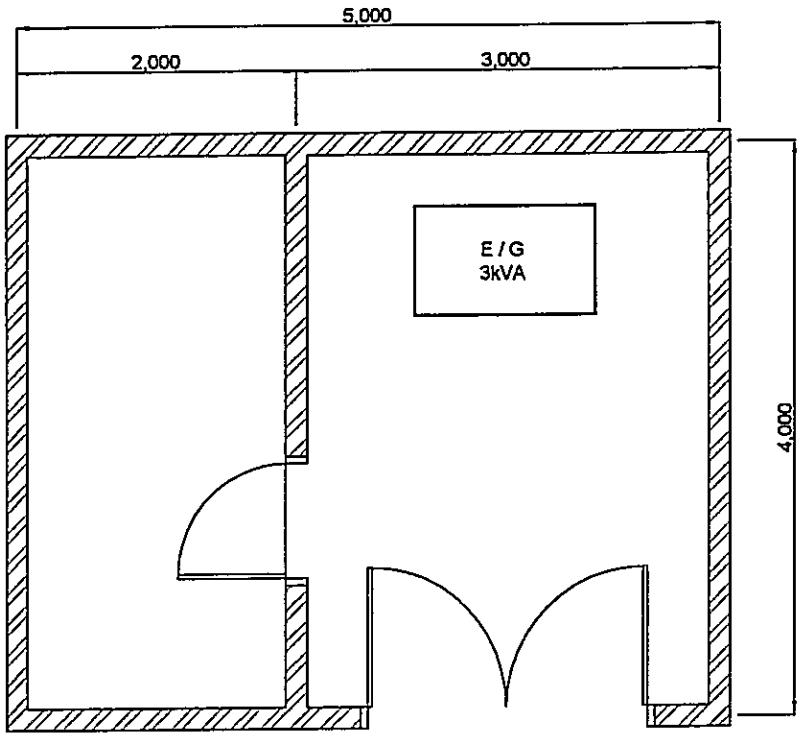
LEGEND

HF : HIGH FREQUENCY
PSU : POWER SUPPLY UNIT
TRX : TRANSCEIVER (ING)
VHF : VERY HIGH FREQUENCY

APPROVED BY JICA :

DRAWN BY AAB

DATE: July 11, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 100	SITE NAME: KOLONEDALE	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,K,D,L,-,1,8,2,-,3,	
JICA – PT. Aneka Asia Buana		



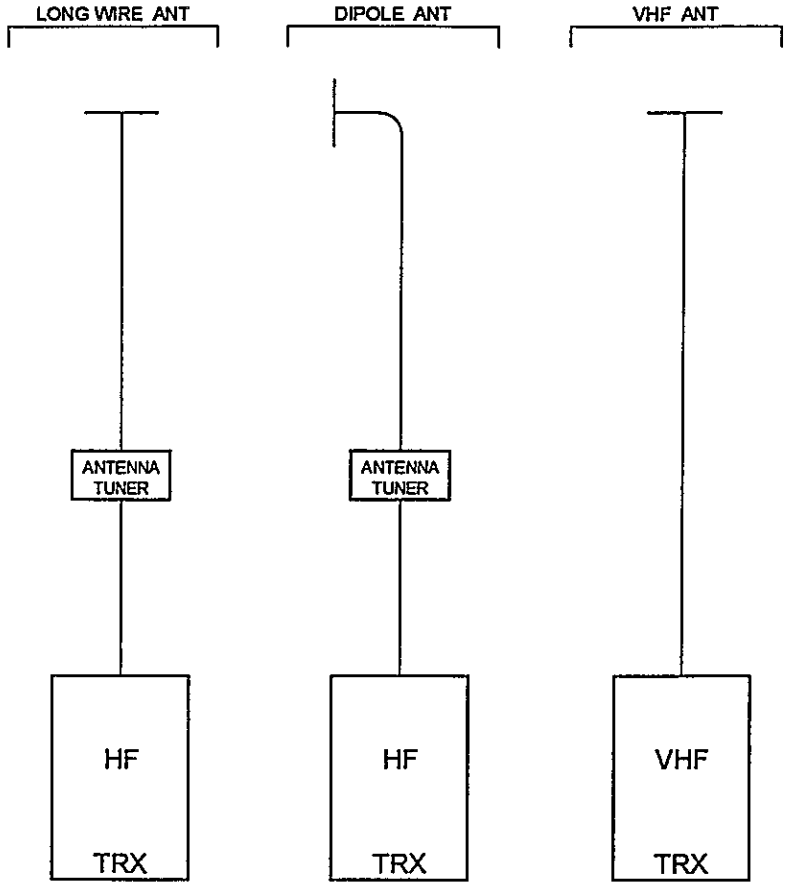
LEGEND

E/G : ENGINE GENERATOR
kVA : KILO VOLT AMPERE

DATE: July 11, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 50	SITE NAME: KOLONEDALE	
DIMENSION: Milimeter	DRAWING NO.: SROP-KDL-182-4	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA :

DRAWN BY AAB



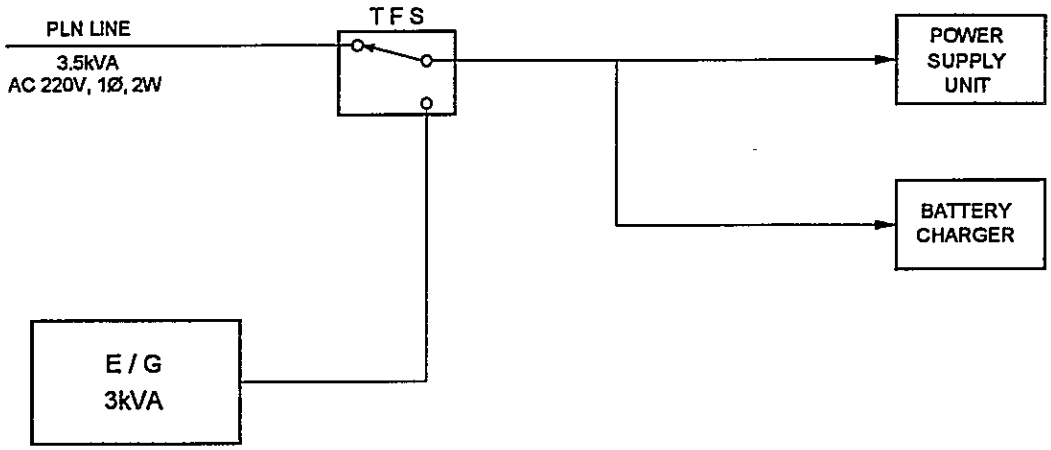
LEGEND

ANT : ANTENNA
HF : HIGH FREQUENCY
TRX : TRANSCEIVER (ING)
VHF : VERY HIGH FREQUENCY

DATE: July 11, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: KOLONEDALE	
DIMENSION: Milimeter	DRAWING NO.: SROP-KDL-182-5	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA.

DRAWN BY AAB



LEGEND

E/G : ENGINE GENERATOR
TFS : TRANSFER SWITCH

DATE: July 11, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: KOLONEDALE	
DIMENSION: Milimeter	DRAWING NO: SROP-KDL-182-6	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA

DRAWN BY AAB :

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-A Class Coast Station
Kuandang
(Coast Station No. 183)

Table of Content

Note :
☑ Available in this list
☒ Not Available in this list
☐ Unnecessary in this list
* Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	KUANDANG		
CLASS	4th-A	NO.	183

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelabuhan Anggrek Desa Hangata.			122° 47′ 50″ E	00° 51′ 12″ N

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Manado	[Taking time: 4.00 hr.]	☐ Highway	☐ Heavy	☐ Hotel	45,112
By Air	to Gorontalo	[Taking time: 1.00 hr.]	☑ Paved	☑ Medium	☑ Motel	
By Car	to Kuandang	[Taking time: 1.00 hr.]	☐ Unpaved road	☐ Light		
				☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system	
				Yes	No
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	☑	☐ Antenna
☐ Slope	☑ Ordinary	☐ Gravel	☐ Flood Tide	☑	☐ Towers (Masts)
☑ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐	☑ Grounding system
☐ Basin	☐ Clay		☑ Ground Subsidence	☐	☑ Lightning system
☐ Valley	☐ Sandy			☑	☐ Feeder Cable Way
Altitude	30.00 M		**Telephone Lines**	☐	☑ City water
Land area	1,034 m²		☐ Lines		

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Asbestos
Type of ceiling	Triplex
Type of wall	Brick
Wall finish	Mortar
Flooring	Ceramic

Room Area (m²)	
Operation room	27.30
E / G room	13.70

Remark

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	110/220 V
Phase	1	2
Wire	2	3
kVA	4	3

Quality of PLN source		
Fluctuations	220 V ± 5 %	
Availability of power per day	24 Hours	
Power interruption /month	20 Times	
Total interpt. hours /month	15 Hours	
Max. interpt. hours at once	20 Hours	

Existing Power Conditions	Good	Bad
Power Supply System	☑	☐
Operations of E/G	☑	☐
Operations of AVR	☑	☐

Capacity of fuel for engine	
Day tank	5 Liter
Main tank	k Liter

E/G Stand-by System

☑ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure

Restoration flow	Repaired in Disnav Bitung
Examples of major failure	Dynamo
Sufficiency of spares	

Records of damages		Environmental Conditions	Good	Bad
☐ Heavy rainfall		☑ External noises	☑	☐
☐ Storm		☑ Air pollution	☑	☐
☑ Lightning	Transceiver MF/HF			
☐ Other calamity				

Institutional and Human Statuses

1	Budget	☐ Sufficient	☐ Reasonable	☑ Insufficient
2	Spares	☐ Enough	☐ Reasonable	☑ Not enough
3	Measuring eqpt./tools	☐ Enough	☐ Reasonable	☑ Not enough
4	Number of Operator	☐ Enough	☑ Reasonable	☐ Not enough
5	Number of Technician	☐ Enough	☐ Reasonable	☑ Not enough
6	Capability of Operator	☐ Skilled	☑ Not so bad	☐ Not capable
7	Capability of Technician	☐ Skilled	☐ Not so bad	☑ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief	1	
Operator (skilled)	2 (1)	()
Technician (skilled)	()	()
Administrator		
Total	3	

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	KUANDANG		
CLASS	4th-A	NO.	183

6. STATISTICAL COMMUNICATION TRAFFIC DATA

Maritime Safety					Public Telecommunication Service								
Years	TG	TEL	DSC	NBDP	Years	Telephone		TG Call	Years	Telephone		TG Call
						Call	Minute			Call	Minute	
1996					1991				1996			59
1997					1992			25	1997			46
1998	2				1993			54	1998			44
1999					1994			57	1999			58
2000	2				1995			67	2000			35

7. COMMENTS

Suggestion	Request for GMDSS (HF/VHF), Air Conditioner (AC), Measuring equipment (Multi Meter), Tool Kit and other equipment for Generator
Remarks	

INVENTORY

Site Name: Kuandang

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		HF Transceiver	IC-M700	01234	ICOM	1990			Good
2		HF Transceiver (Ownership of the Port Office of Pengadaan Pengembangan Fasilitas Kesyahbandaran Sulut T.A 1990/1991)	IC-M700	4032	ICOM	1990			
3		MF/HF Transceiver	IC-M710	03017	ICOM	1995			Damaged
1-2		**VHF System**							
1		VHF Transceiver Ch.12, Ch 13, Ch.14, Ch.16, Ch.20 and Ch.22	FM-400	247647	Furuno	1989			
2		VHF Transceiver	FM-400	H-31282	Furuno	1989			Damaged
2		**Tower & Antenna System**							
2.1		**Antenna Selector**							
1		Automatic Antenna Tuner	AT-120	-	ICOM	1990			Good
2		Automatic Antenna Tuner	AT-130	-	ICOM	1995			Good
2-2		**Antenna Matching Unit**							
1		Antenna Matcher (Ownership of the Port Office)	MN-100	-	ICOM	1990			
3		**Power Supply Equipment**							
3-1		**UPS & AVR**							
1		Power Supply	PS 8930	183027	VEDIO	1990			Damaged
2		Power Supply	CA-1010S	-	CARLTON	1989			Good
3		Power Supply (Ownership of the Port Office)	PS-313	-	DAIWA	1990			
4		Power Supply	SP3500		Swallow				Good
5		Accumulator (12V)	N-120	-	GS	1996			
6		Accu Charger (110/220V, 60A, 12V Output)	-	-	DELTA	1996			Damaged

INVENTORY

Site Name: Kuandang

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
7		Voltage Stabilizator	SCV-500	4305441	Matsunaga	1995			Good
9		Battery Charger			Kobe				Good
3-2		**Engine Generator**							
1		Engine	TS-50	DT 111	Yanmar	-			
2		Dinamo	YKG2	C80246	Yanmar	-			
3		Stationary Generating Set	TF85R-D1		Yanmar				Good
4		Dinamo	ST-5	25110200	Changhai				Damaged
4		**Measuring Equipment**							
1		Multimeter	SP-80D	-	HELES	1993			Damaged
2		Multimeter	Fluke87	64510747	Fluke				Damaged
5		**Others**							
1		Ring Lock and Exact Lock	-	-	DIAMOND	1991			
2		Fan	F-EC234	D00795	National	1995			Good

STATUS OF TROUBLES

SITE NAME : KUANDANG **KUG-183-(1/1)**

Item / Equipment	Transceiver MF/HF Portable, Transceiver VHF Portable / -		
Manufacturer	Icom, Furuno		
Manufacturer in year	1995, 1989		
Defective panel / unit	Transmitter		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☐ Aging		☑ Immediacy
	☑ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

Radio and Generator must be routine maintenance
Heavy damaged, repaired by technician District Navigation Manado/Bitung

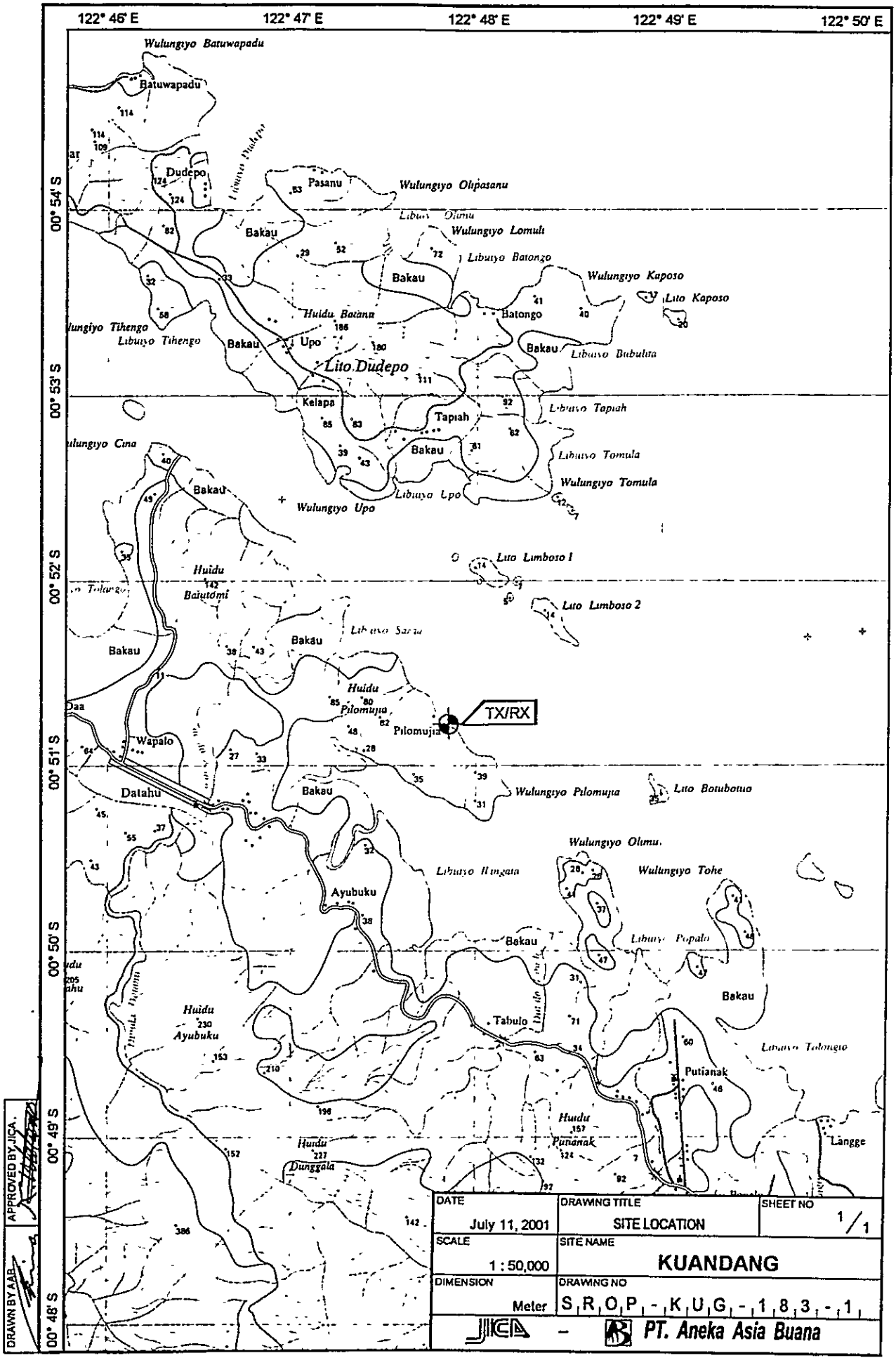
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Kuandang

KUG-183-(1/1)

Call Sign : Mobile Service : PKM.27
Fix Service

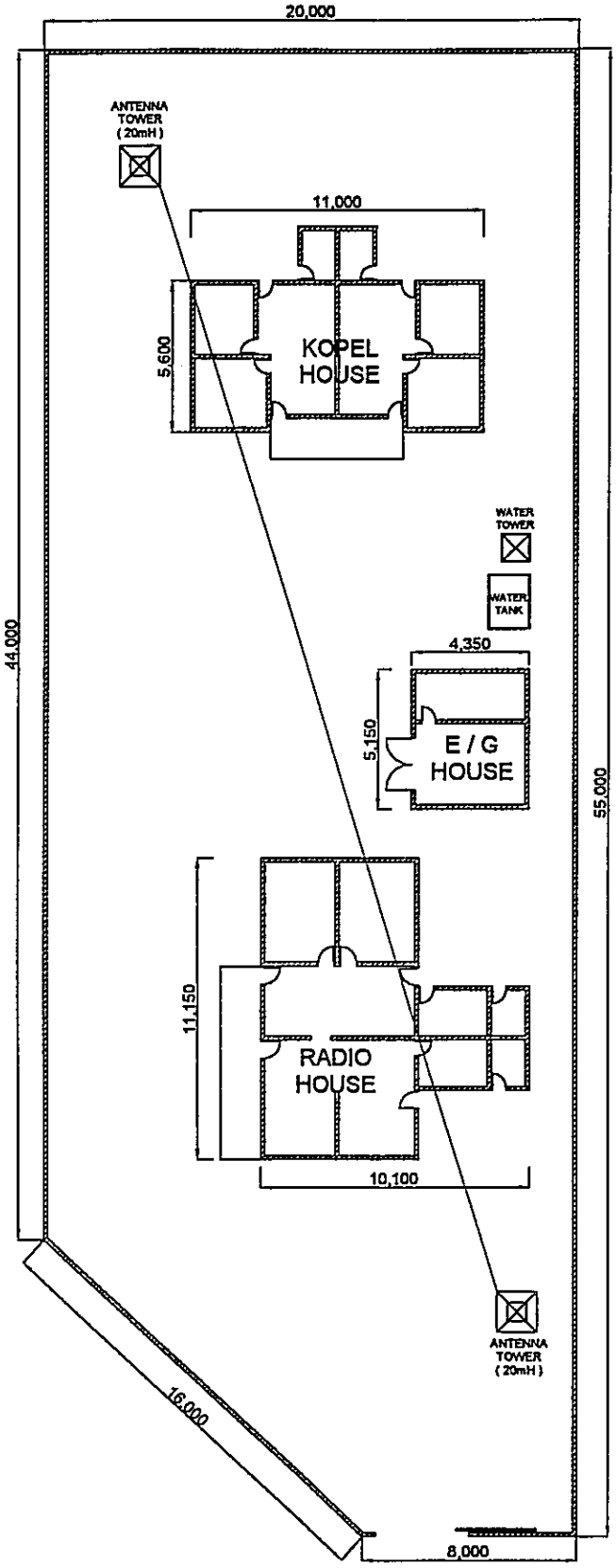
	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	21 282,0	J3E	100		
2	2 080,0	J3E	100		
3	31 801,0	J3E	100		
4	6 215,0	J3E	100		
5	6 209,0	J3E	100		
6	6 510,0	J3E	100		
7	6 224,0	J3E	100		
	VHF Service				
8	Channel-12	G3E	40		
9	Channel-13	G3E	40		
10	Channel-14	G3E	40		
11	Channel-16	G3E	40		
12	Channel-20	G3E	40		
13	Channel-22	G3E	40		
	Fix Service				
14	5 381,0	J3E	100		
15	9 110,0	J3E	100		
16					
17					
18					
19					
20					
21					
22					
23					



DATE: July 11, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 : 50,000	SITE NAME: KUANDANG	
DIMENSION: Meter	DRAWING NO: S,R,O,P,-,K,U,G,-,1,8,3,-,1	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA

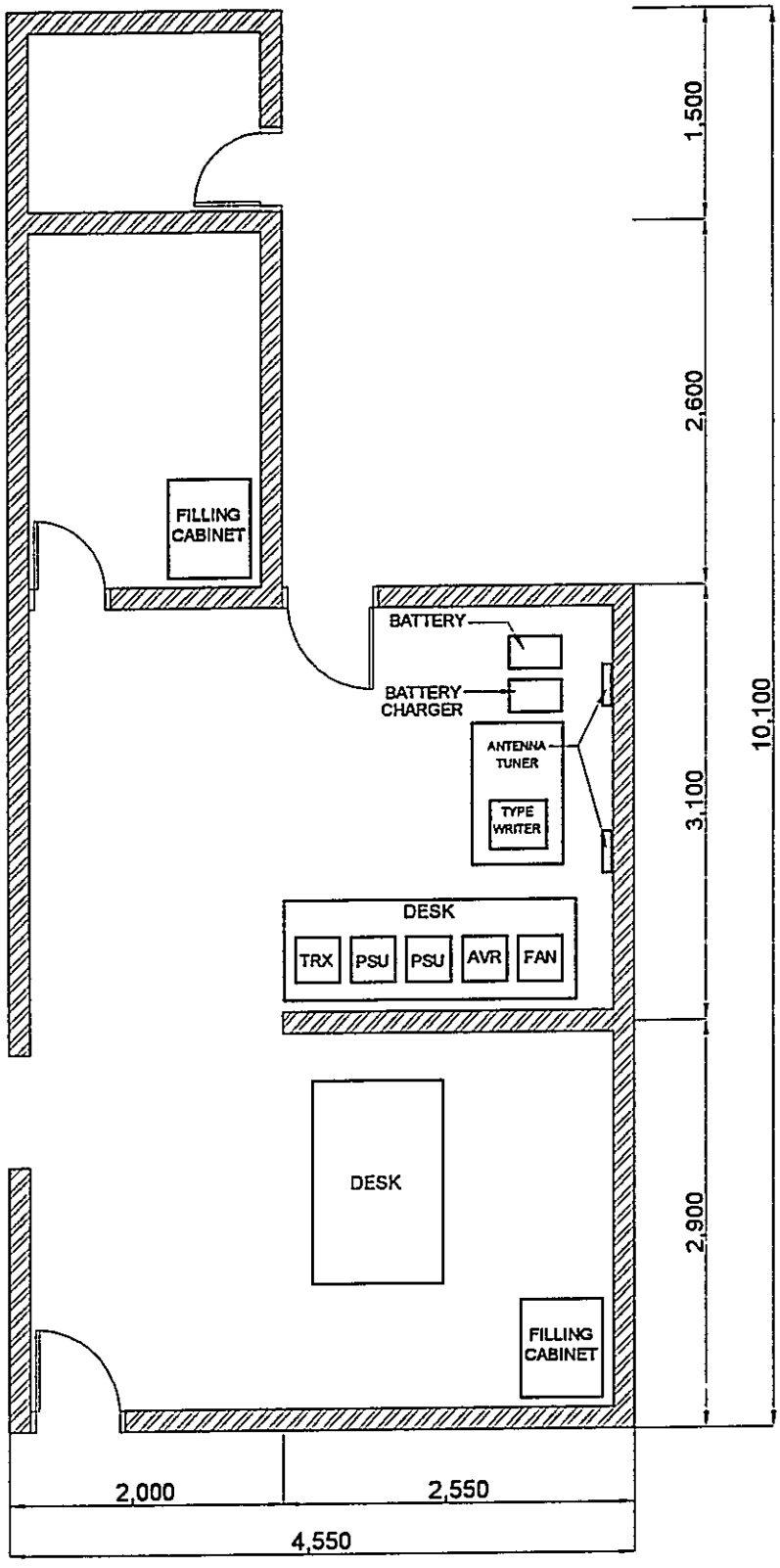
DRAWN BY AAB



DRAWN BY AAB

APPROVED BY JICA

DATE: August 03, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 250	SITE NAME: KUANDANG	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,K,U,G,-,1,8,3,-,2,	
JICA – PT. Aneka Asia Buana		



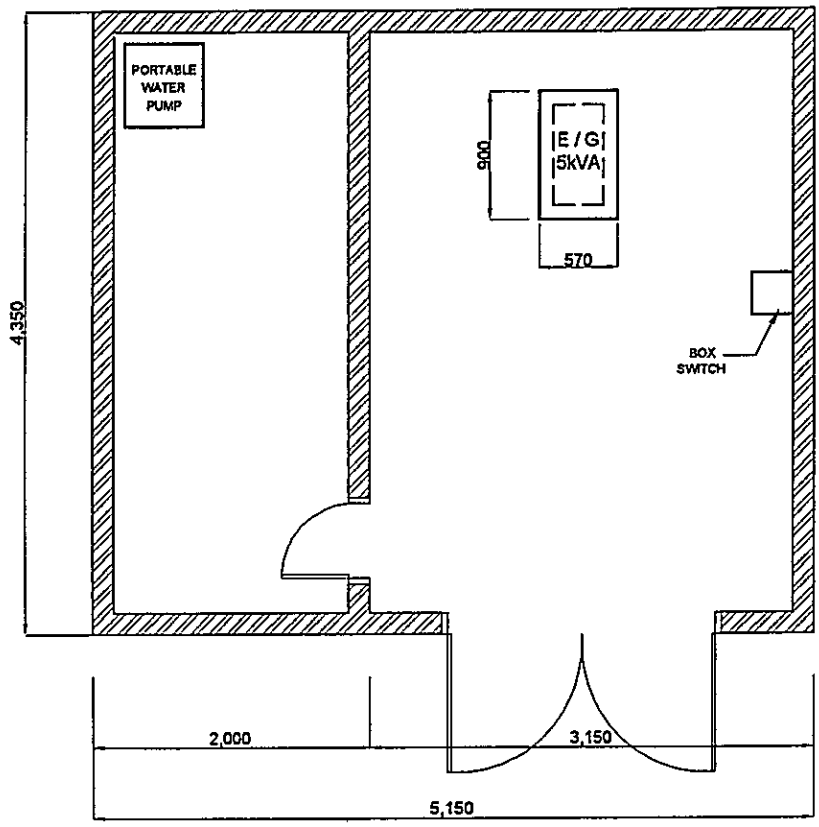
LEGEND

AVR : AUTOMATIC VOLTAGE REGULATOR
PSU : POWER SUPPLY UNIT
TRX : TRANSCEIVER (ING)

APPROVED BY JICA

DRAWN BY AAB

DATE: August 03, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: KUANDANG	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,K,U,G,-,1,8,3,-,3,	
JICA –	PT. Aneka Asia Buana	



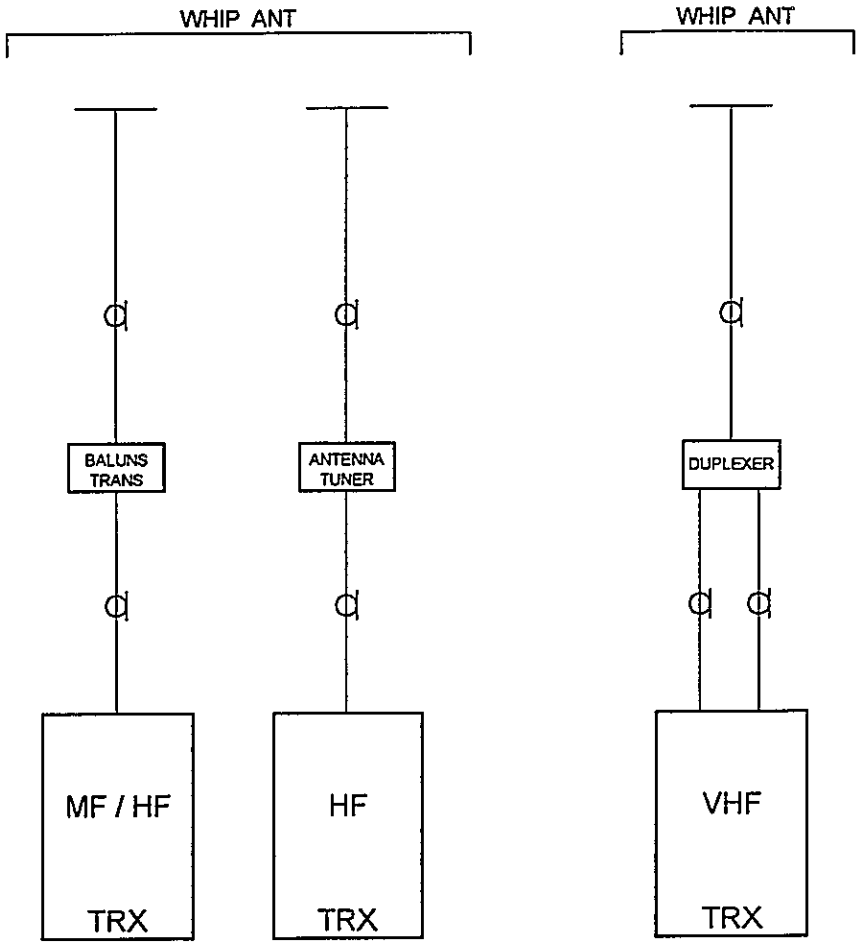
LEGEND

E/G : ENGINE GENERATOR
kVA : KILO VOLT AMPERE

DATE: August 03, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: KUANDANG	
DIMENSION: Millimeter	DRAWING NO.: SROP-KUG-183-4	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB

APPROVED BY JICA



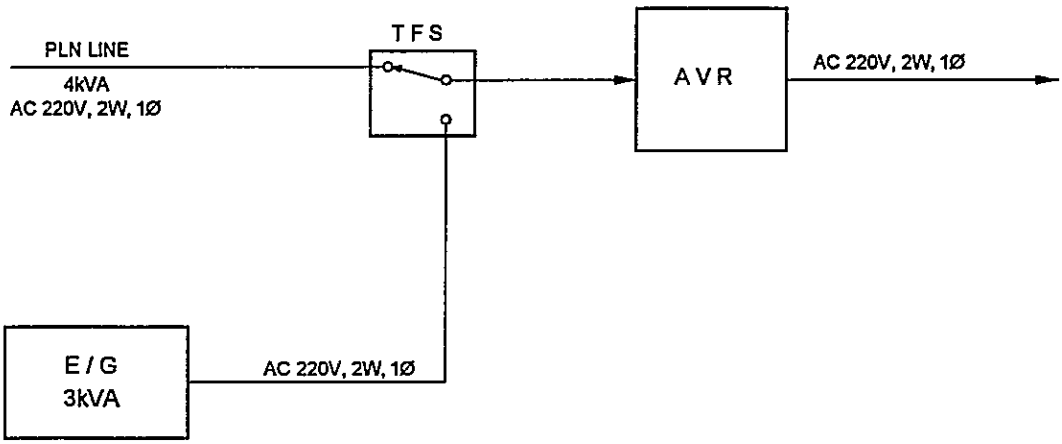
LEGEND

ANT : ANTENNA
HF : HIGH FREQUENCY
TRX : TRANSCEIVER (ING)
VHF : VERY HIGH FREQUENCY

DATE: August 03, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: KUANDANG	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,K,U,G,-,1,8,3,-,5,	
JICA –	PT. Aneka Asia Buana	

DRAWN BY A&B

APPROVED BY JICA.



LEGEND

AC	: ALTERNATING CURRENT
AVR	: AUTOMATIC VOLTAGE REGULATOR
E/G	: ENGINE GENERATOR
kVA	: KILO VOLT AMPERE
TFS	: TRANSFER SWITCH
V	: VOLT
W	: WIRE
Ø	: PHASE

APPROVED BY JICA

DRAWN BY AAB

DATE: August 03, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: KUANDANG	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,K,U,G,-,1,8,3,-,6,	
JICA –	PT. Aneka Asia Buana	

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-B Class Coast Station

Tagulandang

(Coast Station No. 184)

Table of Content

Note :

- ☑ Available in this list
- ☒ Not Available in this list
- ☐ Unnecessary in this list
- * Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	TAGULANDANG		
CLASS	4th-B	NO.	184

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX				125° 27′ 28″ E	02° 21′ 09″ N

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
	☐ Highway	☐ Heavy	☐ Hotel	
	☐ Paved	☐ Medium	☐ Motel	
	☐ Unpaved road	☐ Light		
		☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☐ ☐ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐ ☐ Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☐ ☐ Grounding system
☐ Valley	☐ Sandy			☐ ☐ Lightning system
Altitude	M		Telephone Lines	☐ ☐ Feeder Cable Way
Land area	m²		☐ Lines	☐ ☐ City water

3.2 Building Conditions

Constructions	
Num. of story	
Structure	
Type of roof	
Type of ceiling	
Type of wall	
Wall finish	
Flooring	
Room Area (m²)	
Operation room	
E / G room	
Remark	Name only

3.3 Power Source

	PLN Source	E/G	Existing Power Conditions
Voltage	V	V	Good Bad
Phase			☐ ☑ Power Supply System
Wire			☐ ☑ Operations of E/G
kVA			☐ ☑ Operations of AVR

Quality of PLN source			Capacity of fuel for engine	
Fluctuations	V ± %		Day tank	Liter
Availability of power per day		Hours	Main tank	k Liter
Power interruption /month		Times	E/G Stand-by System	
Total interpt. hours /month		Hours	☐ Single System	
Max. interpt. hours at once		Hours	☐ Dual System	

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	
Examples of major failure	
Sufficiency of spares	

Records of damages	Environmental Conditions		
	Good	Bad	
☐ Heavy rainfall			
☐ Storm	☐	☑	External noises
☐ Lightning	☐	☑	Air pollution
☐ Other calamity			

Institutional and Human Statuses			
1 Budget	☐ Sufficient	☐ Reasonable	☐ Insufficient
2 Spares	☐ Enough	☐ Reasonable	☐ Not enough
3 Measuring eqpt./tools	☐ Enough	☐ Reasonable	☐ Not enough
4 Number of Operator	☐ Enough	☐ Reasonable	☐ Not enough
5 Number of Technician	☐ Enough	☐ Reasonable	☐ Not enough
6 Capability of Operator	☐ Skilled	☐ Not so bad	☐ Not capable
7 Capability of Technician	☐ Skilled	☐ Not so bad	☐ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief		
Operator (skilled)	0	0
Technician (skilled)	0	0
Administrator		
T o t a l		

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	TAGULANDANG		
CLASS	4th-B	NO.	184

6. STATISTICAL COMMUNICATION TRAFFIC DATA

Maritime Safety					Public Telecommunication Service							
Years	TG	TEL	DSC	NBDP	Years	Telephone		TG Call	Years	Telephone		TG Call
						Call	Minute			Call	Minute	
1996					1991				1996			
1997					1992				1997			
1998					1993				1998			
1999					1994				1999			
2000					1995				2000			

7. COMMENTS

Suggestion	
Remarks	No Data

INVENTORY

Site Name: Tagulandang

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition

Data not Available because Coast Station doesn't exists or Name only

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Tagulandang

TLD-184-(1/1)

Call Sign : Mobile Service :
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
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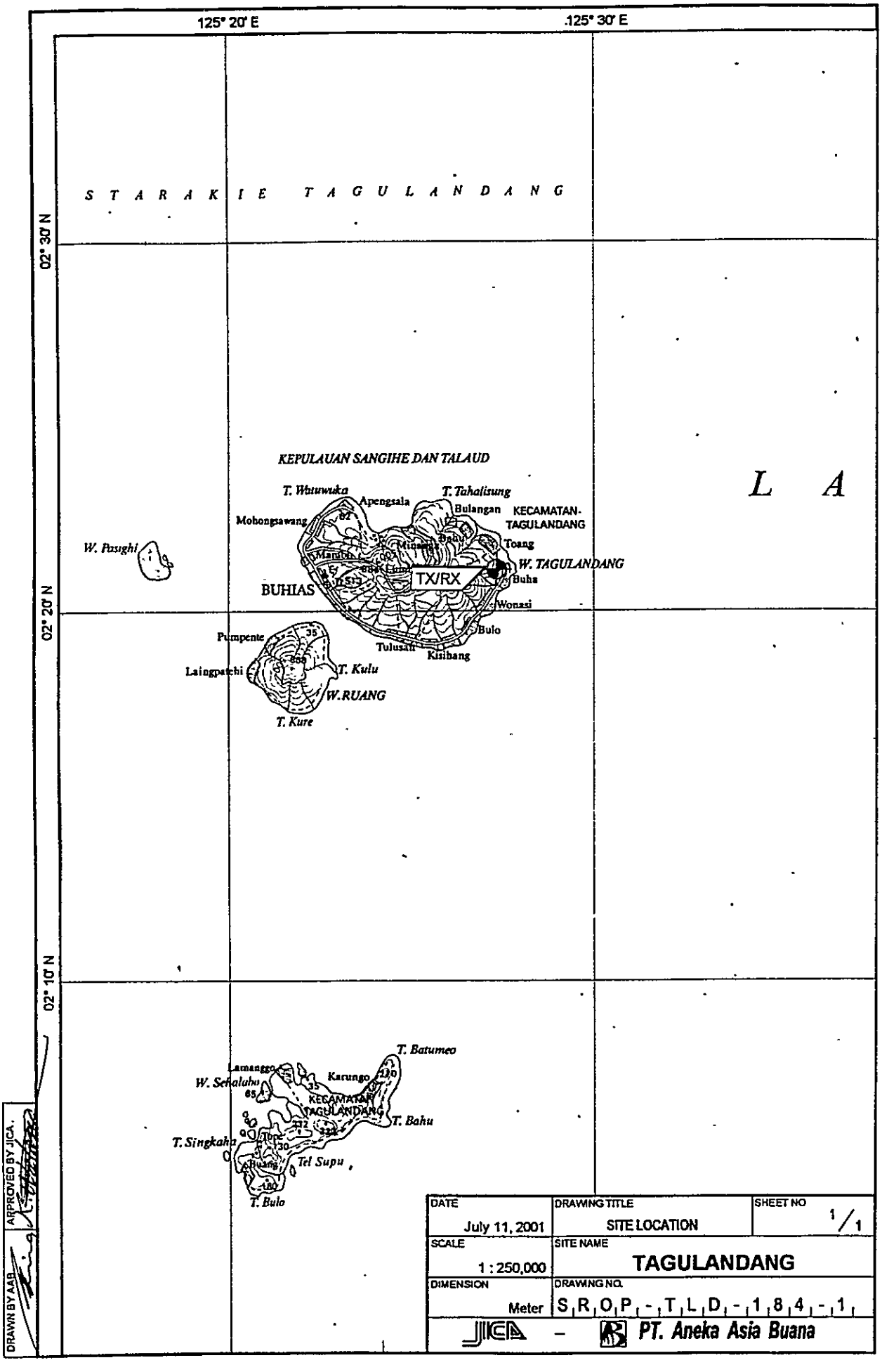
21					
22					
23					
24					
25					
26					
27					

Data not Available because Coast Station doesn't exists or Name only



APPROVED BY JICA

DRAWN BY AAB

DATE: July 11, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 : 250,000	SITE NAME: TAGULANDANG	
DIMENSION: Meter	DRAWING NO.: S R O P - T L D - 1 8 4 - 1	

JICA – PT. Aneka Asia Buana

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-B Class Coast Station

Banggai

(Coast Station No. 185)

Table of Content

Note :
- ☑ Available in this list
- ☒ Not Available in this list
- ☐ Unnecessary in this list
- * Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	BANGGAI		
CLASS	4th-B	NO.	185

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX				123° 31′ 00″ E	01° 34′ 00″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
	☐ Highway	☐ Heavy	☐ Hotel	
	☐ Paved	☐ Medium	☐ Motel	
	☐ Unpaved road	☐ Light		
		☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☐ ☐ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐ ☐ Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☐ ☐ Grounding system
☐ Valley	☐ Sandy			☐ ☐ Lightning system
Altitude	M		Telephone Lines	☐ ☐ Feeder Cable Way
Land area	m²		☐ Lines	☐ ☐ City water

3.2 Building Conditions

Constructions	
Num. of story	
Structure	
Type of roof	
Type of ceiling	
Type of wall	
Wall finish	
Flooring	
Room Area (m²)	
Operation room	
E / G room	

3.3 Power Source

	PLN Source	E/G
Voltage	V	V
Phase		
Wire		
kVA		

Quality of PLN source		
Fluctuations	V ± %	
Availability of power per day		Hours
Power interruption /month		Times
Total interpt. hours /month		Hours
Max. interpt. hours at once		Hours

Existing Power Conditions			
Good	Bad		
☐	☐	Power Supply System	
☐	☐	Operations of E/G	
☐	☐	Operations of AVR	

Capacity of fuel for engine	
Day tank	Liter
Main tank	k Liter

E/G Stand-by System	
☐	Single System
☐	Dual System

Remark No data
Name only.

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	
Examples of major failure	
Sufficiency of spares	

Records of damages	
☐ Heavy rainfall	
☐ Storm	
☐ Lightning	
☐ Other calamity	

Environmental Conditions		
Good	Bad	
☐	☑	External noises
☐	☑	Air pollution

Institutional and Human Statuses				
1	Budget	☐ Sufficient	☐ Reasonable	☐ Insufficient
2	Spares	☐ Enough	☐ Reasonable	☐ Not enough
3	Measuring eqpt./tools	☐ Enough	☐ Reasonable	☐ Not enough
4	Number of Operator	☐ Enough	☐ Reasonable	☐ Not enough
5	Number of Technician	☐ Enough	☐ Reasonable	☐ Not enough
6	Capability of Operator	☐ Skilled	☐ Not so bad	☐ Not capable
7	Capability of Technician	☐ Skilled	☐ Not so bad	☐ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief		
Operator (skilled)	()	()
Technician (skilled)	()	()
Administrator		
T o t a l		

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	BANGGAI		
CLASS	4th-B	NO.	185

6. STATISTICAL COMMUNICATION TRAFFIC DATA

Maritime Safety					Public Telecommunication Service							
Years	TG	TEL	DSC	NBDP	Years	Telephone		TG Call	Years	Telephone		TG Call
						Call	Minute			Call	Minute	
1996					1991				1996			
1997					1992				1997			
1998					1993				1998			
1999					1994				1999			
2000					1995				2000			

7. COMMENTS

Suggestion	
Remarks	No Data

INVENTORY

Site Name: Banggai

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition

Data not Available doe to no Response from Coast Station

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Banggai

BGL-185-(1/1)

Call Sign : Mobile Service :
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
1					
2					
3					
4					
5					
6					
7					
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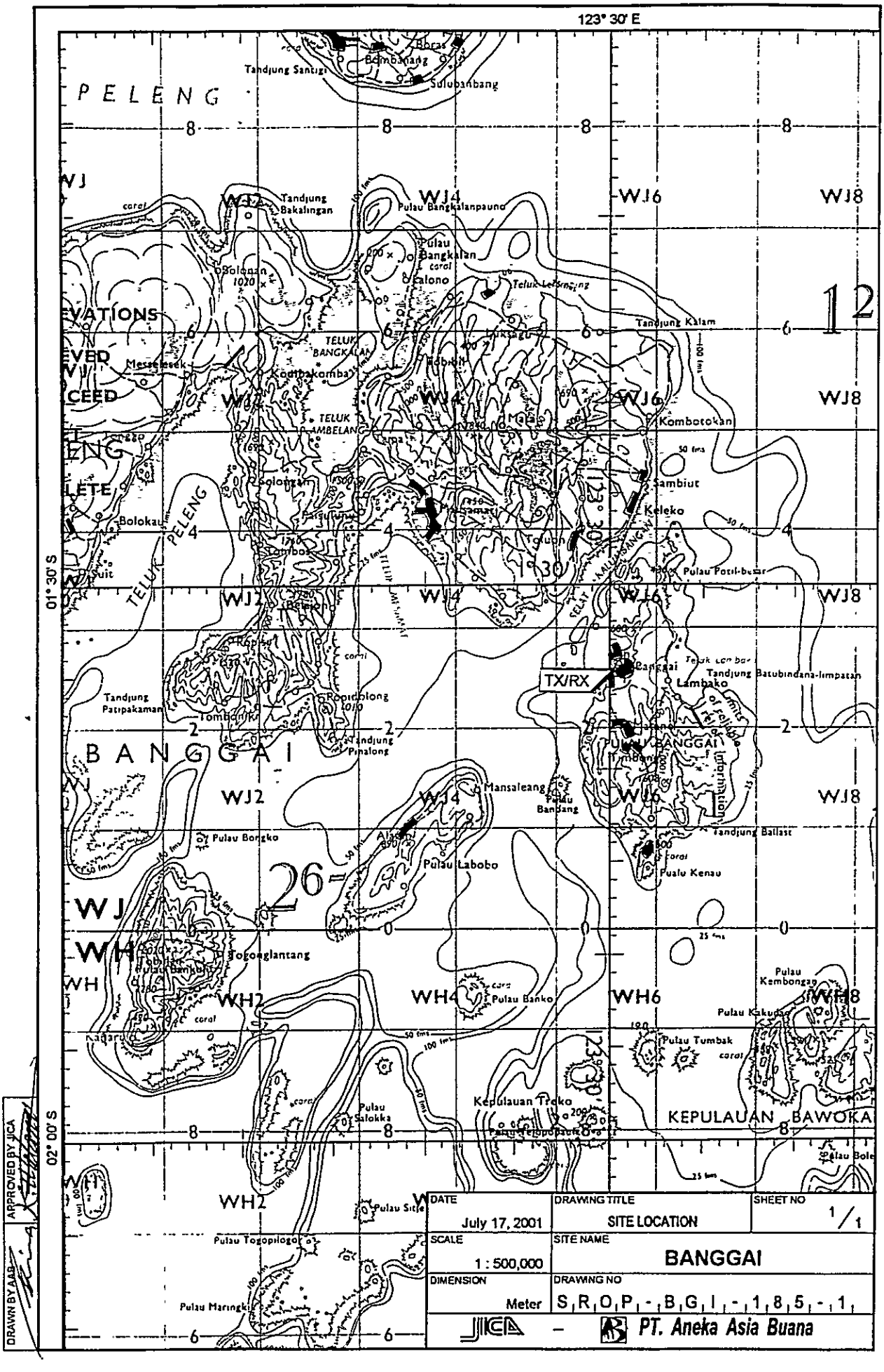
27					

Data not Available because Coast Station doesn't exists or Name only



DATE: July 17, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 : 500,000	SITE NAME: BANGGAI	
DIMENSION: Meter	DRAWING NO: S,R,O,P,-,B,G,I,-,1,8,5,-,1	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA

DRAWN BY AAB

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-B Class Coast Station
Moutong
(Coast Station No. 186)

Table of Content

Note :
☑ Available in this list
☒ Not Available in this list
☐ Unnecessary in this list
* Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	MOUTONG		
CLASS	4th-B	NO.	186

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX				121° 20′ 14″ E	00° 29′ 04″ N

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
	☐ Highway	☐ Heavy	☐ Hotel	
	☐ Paved	☐ Medium	☐ Motel	
	☐ Unpaved road	☐ Light		
		☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☐ ☐ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐ ☐ Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☐ ☐ Grounding system
☐ Valley	☐ Sandy			☐ ☐ Lightning system
Altitude	M		Telephone Lines	☐ ☐ Feeder Cable Way
Land area	m²		☐ Lines	☐ ☐ City water

3.2 Building Conditions

Constructions	
Num. of story	
Structure	
Type of roof	
Type of ceiling	
Type of wall	
Wall finish	
Flooring	
Room Area (m²)	
Operation room	
E / G room	
Remark	Name only

3.3 Power Source

	PLN Source	E/G	Existing Power Conditions
Voltage	V	V	Good Bad
Phase			☐ ☐ Power Supply System
Wire			☐ ☐ Operations of E/G
kVA			☐ ☐ Operations of AVR

Quality of PLN source			Capacity of fuel for engine	
Fluctuations	V ± %		Day tank	Liter
Availability of power per day		Hours	Main tank	k Liter
Power interruption /month		Times	E/G Stand-by System	
Total interpt. hours /month		Hours	☐ Single System	
Max interpt. hours at once		Hours	☐ Dual System	

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	
Examples of major failure	
Sufficiency of spares	

Records of damages		Environmental Conditions		
		Good	Bad	
☐ Heavy rainfall				
☐ Storm		☐	☑	External noises
☐ Lightning		☐	☑	Air pollution
☐ Other calamity				

Institutional and Human Statuses				
1	Budget	☐ Sufficient	☐ Reasonable	☐ Insufficient
2	Spares	☐ Enough	☐ Reasonable	☐ Not enough
3	Measuring eqpt./tools	☐ Enough	☐ Reasonable	☐ Not enough
4	Number of Operator	☐ Enough	☐ Reasonable	☐ Not enough
5	Number of Technician	☐ Enough	☐ Reasonable	☐ Not enough
6	Capability of Operator	☐ Skilled	☐ Not so bad	☐ Not capable
7	Capability of Technician	☐ Skilled	☐ Not so bad	☐ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief		
Operator (skilled)	()	()
Technician (skilled)	()	()
Administrator		
T o t a l		

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	MOUTONG		
CLASS	4th-B	NO.	186

6. STATISTICAL COMMUNICATION TRAFFIC DATA

Maritime Safety					Public Telecommunication Service							
Years	TG	TEL	DSC	NBDP	Years	Telephone		TG Call	Years	Telephone		TG Call
						Call	Minute			Call	Minute	
1996					1991				1996			
1997					1992				1997			
1998					1993				1998			
1999					1994				1999			
2000					1995				2000			

7. COMMENTS

Suggestion	
Remarks	No Data

INVENTORY

Site Name: Moutong

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition

Data not Available doe to no Response from Coast Station

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Moutong

MTG-186-(1/1)

Call Sign : Mobile Service :
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
1					
2					
3					
4					
5					
6					
7					
8					
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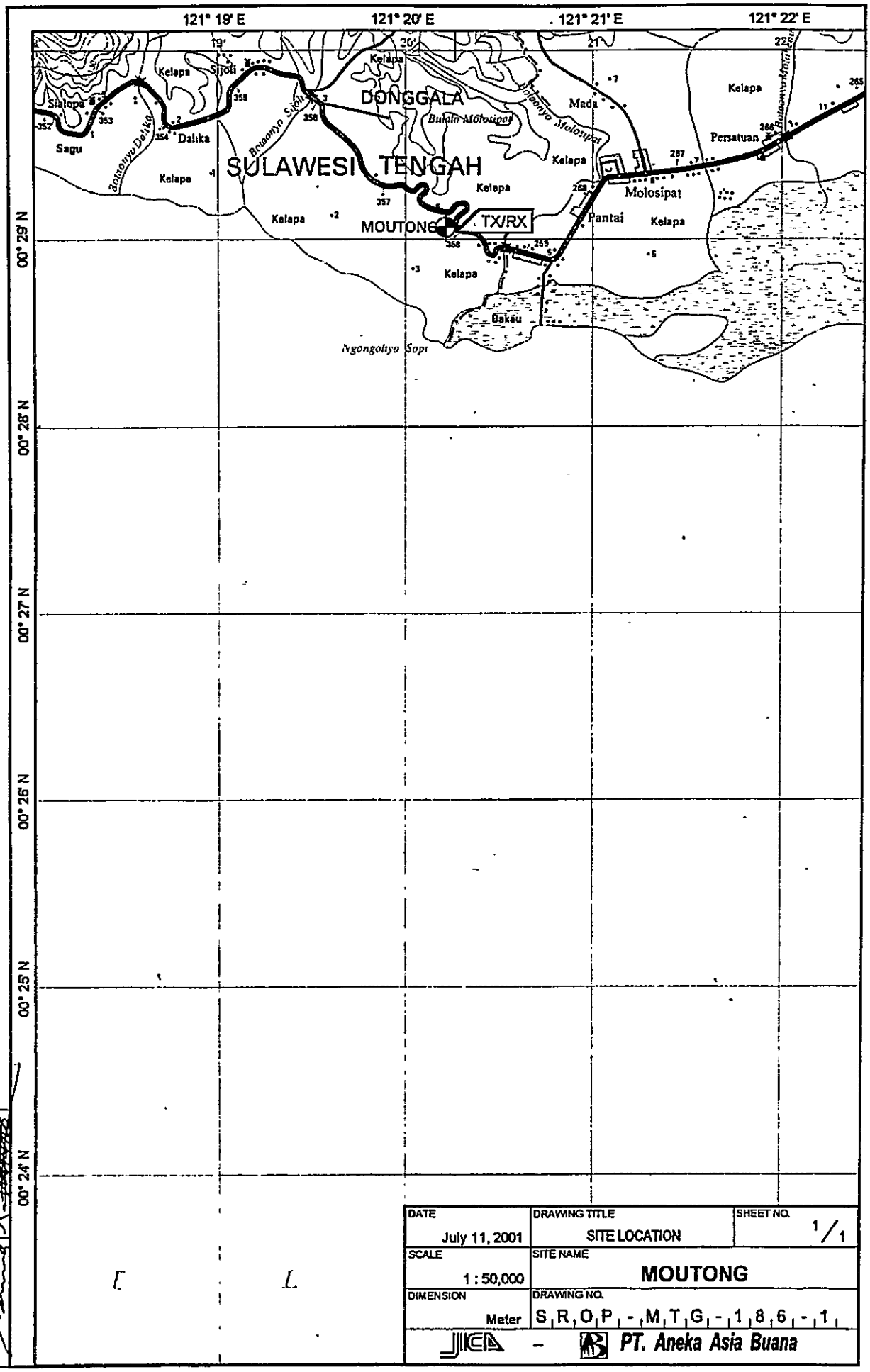
27					

Data not Available because Coast Station doesn't exists or Name only



DATE: July 11, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO.: 1/1
SCALE: 1 : 50,000	SITE NAME: MOUTONG	
DIMENSION: Meter	DRAWING NO.: S,R,O,P,-,M,T,G,-,1,8,6,-,1,	
JICA - PT. Aneka Asia Buana		

DRAWN BY AAB

APPROVED BY JICA

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-B Class Coast Station

Bunta

(Coast Station No. 187)

Table of Content

Note :
- ☑ Available in this list
- ☒ Not Available in this list
- ☐ Unnecessary in this list
- * Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	BUNTA		
CLASS	4th-B	NO.	187

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX				122° 10′ 10″ E	00° 50′ 10″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
	☐ Highway	☐ Heavy	☐ Hotel	
	☐ Paved	☐ Medium	☐ Motel	
	☐ Unpaved road	☐ Light		
		☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☐ ☐ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐ ☐ Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☐ ☐ Grounding system
☐ Valley	☐ Sandy			☐ ☐ Lightning system
Altitude	M		Telephone Lines	☐ ☐ Feeder Cable Way
Land area	m²		☐ Lines	☐ ☐ City water

3.2 Building Conditions

Constructions	
Num. of story	
Structure	
Type of roof	
Type of ceiling	
Type of wall	
Wall finish	
Flooring	
Room Area (m²)	
Operation room	
E / G room	
Remark	Name only

3.3 Power Source

	PLN Source	E/G	Existing Power Conditions
Voltage	V	V	Good Bad
Phase			☐ ☐ Power Supply System
Wire			☐ ☐ Operations of E/G
kVA			☐ ☐ Operations of AVR

Quality of PLN source			Capacity of fuel for engine	
Fluctuations	V ± %		Day tank	Liter
Availability of power per day		Hours	Main tank	k Liter
Power interruption /month		Times	E/G Stand-by System	
Total interpt. hours /month		Hours	☐ Single System	
Max. interpt. hours at once		Hours	☐ Dual System	

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	
Examples of major failure	
Sufficiency of spares	

Records of damages		Environmental Conditions		
		Good	Bad	
☐ Heavy rainfall				
☐ Storm		☐	☑	External noises
☐ Lightning		☐	☑	Air pollution
☐ Other calamity				

Institutional and Human Statuses				
1	Budget	☐ Sufficient	☐ Reasonable	☐ Insufficient
2	Spares	☐ Enough	☐ Reasonable	☐ Not enough
3	Measuring eqpt./tools	☐ Enough	☐ Reasonable	☐ Not enough
4	Number of Operator	☐ Enough	☐ Reasonable	☐ Not enough
5	Number of Technician	☐ Enough	☐ Reasonable	☐ Not enough
6	Capability of Operator	☐ Skilled	☐ Not so bad	☐ Not capable
7	Capability of Technician	☐ Skilled	☐ Not so bad	☐ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief		
Operator (skilled)	0	0
Technician (skilled)	0	0
Administrator		
Total		

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	BUNTA		
CLASS	4th-B	NO.	187

6. STATISTICAL COMMUNICATION TRAFFIC DATA

Maritime Safety					Public Telecommunication Service							
Years	TG	TEL	DSC	NBDP	Years	Telephone		TG Call	Years	Telephone		TG Call
						Call	Minute			Call	Minute	
1996					1991				1996			
1997					1992				1997			
1998					1993				1998			
1999					1994				1999			
2000					1995				2000			

7. COMMENTS

Suggestion	
Remarks	No Data

INVENTORY

Site Name: Bunta

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition

Data not Available doe to no Response from Coast Station

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Bunta

BNT-187-(1/1)

Call Sign : Mobile Service :
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
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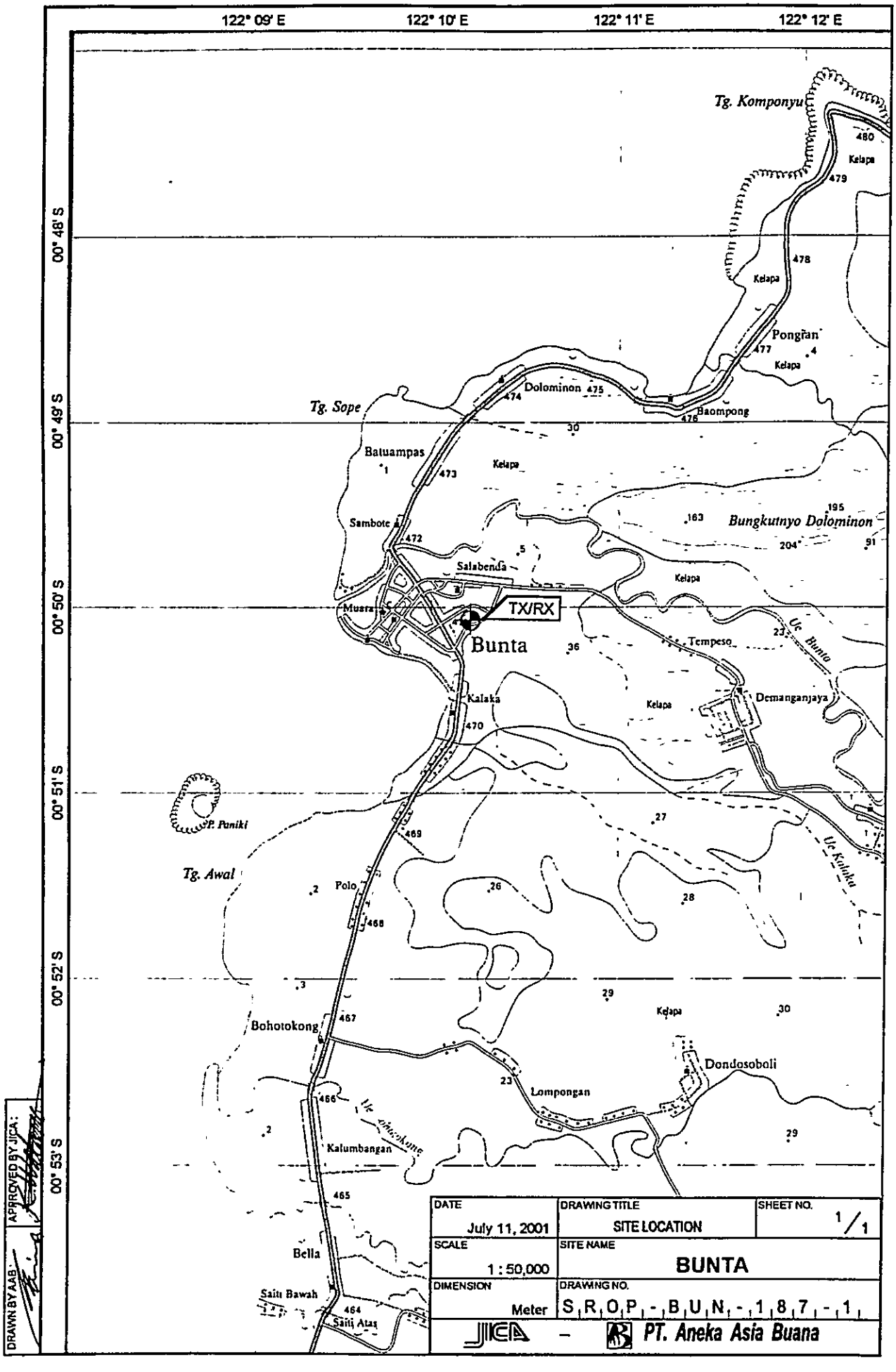
21					
22					
23					
24					
25					
26					
27					

Data not Available because Coast Station doesn't exists or Name only



DATE: July 11, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO.: 1/1
SCALE: 1 : 50,000	SITE NAME: BUNTA	
DIMENSION: Meter	DRAWING NO.: S,R,O,P,-,B,U,N,-,1,8,7,-,1	

JICA – PT. Aneka Asia Buana

DRAWN BY AAB: APPROVED BY JICA:

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-B Class Coast Station

Wani

(Coast Station No. 188)

Table of Content

- ☑ Summary of Coast Station
- ☐ Inventory
- ☐ Status of Trouble
- ☐ Operation Schedule (Frequencies)

TRX Drawings:

- ☒ Site Location
- ☐ Antenna Layout
- ☐ Equipment Floor Layout
- ☐ E/G Floor Layout
- ☐ System Block Diagram
- ☐ Power Block Diagram

Note :

- ☑ Available in this list
- ☒ Not Available in this list
- ☐ Unnecessary in this list
- * Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	WANI		
CLASS	4th-B	NO.	188

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX				° ' "	° ' "

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
	☐ Highway	☐ Heavy	☐ Hotel	
	☐ Paved	☐ Medium	☐ Motel	
	☐ Unpaved road	☐ Light		
		☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☐ ☐ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐ ☐ Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☐ ☐ Grounding system
☐ Valley	☐ Sandy			☐ ☐ Lightning system
Altitude	M		Telephone Lines	☐ ☐ Feeder Cable Way
Land area	m²		☐ Lines	☐ ☐ City water

3.2 Building Conditions

Constructions	
Num of story	
Structure	
Type of roof	
Type of ceiling	
Type of wall	
Wall finish	
Flooring	
Room Area (m²)	
Operation room	
E / G room	
Remark	Name only

3.3 Power Source

	PLN Source	E/G	Existing Power Conditions
Voltage	V	V	Good Bad
Phase			☐ ☐ Power Supply System
Wire			☐ ☐ Operations of E/G
kVA			☐ ☐ Operations of AVR

Quality of PLN source			Capacity of fuel for engine	
Fluctuations	V ± %		Day tank	Liter
Availability of power per day		Hours	Main tank	k Liter
Power interruption /month		Times	E/G Stand-by System	
Total interpt. hours /month		Hours	☐ Single System	
Max. interpt. hours at once		Hours	☐ Dual System	

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	
Examples of major failure	
Sufficiency of spares	

Records of damages		Environmental Conditions		
		Good	Bad	
☐ Heavy rainfall				
☐ Storm		☐	☑	External noises
☐ Lightning		☐	☑	Air pollution
☐ Other calamity				

Institutional and Human Statuses			
1 Budget	☐ Sufficient	☐ Reasonable	☐ Insufficient
2 Spares	☐ Enough	☐ Reasonable	☐ Not enough
3 Measuring eqpt./tools	☐ Enough	☐ Reasonable	☐ Not enough
4 Number of Operator	☐ Enough	☐ Reasonable	☐ Not enough
5 Number of Technician	☐ Enough	☐ Reasonable	☐ Not enough
6 Capability of Operator	☐ Skilled	☐ Not so bad	☐ Not capable
7 Capability of Technician	☐ Skilled	☐ Not so bad	☐ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief		
Operator (skilled)	()	()
Technician (skilled)	()	()
Administrator		
T o t a l		

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	WANI		
CLASS	4th-B	NO	188

6. STATISTICAL COMMUNICATION TRAFFIC DATA

Maritime Safety					Public Telecommunication Service							
Years	TG	TEL	DSC	NBDP	Years	Telephone		TG Call	Years	Telephone		TG Call
						Call	Minute			Call	Minute	
1996					1991				1996			
1997					1992				1997			
1998					1993				1998			
1999					1994				1999			
2000					1995				2000			

7. COMMENTS

Suggestion	
Remarks	No Data

INVENTORY

Site Name: Wani

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition

Data not Available because Coast Station doesn't exists or Name only

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Wani

WNI-188-(1/1)

Call Sign : Mobile Service :
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
1					
2					
3					
4					
5					
6					
7					
8					
9					
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26					
27					

Data not Available because Coast Station doesn't exists or Name only

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-B Class Coast Station

Ampana

(Coast Station No. 189)

Table of Content

- ☑ Summary of Coast Station
- ☑ Inventory
- ☑ Status of Trouble
- ☑ Operation Schedule (Frequencies)

TRX Drawings:

- ☑ Site Location
- ☑ Antenna Layout
- ☑ Equipment Floor Layout
- ☐ E/G Floor Layout
- ☑ System Block Diagram
- ☑ Power Block Diagram

Note :

- ☑ Available in this list
- ☒ Not Available in this list
- ☐ Unnecessary in this list
- * Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	AMPANA		
CLASS	4th-B	NO.	189

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Yos Sudarso No. 25			121° 34′ 18″ E	00° 52′ 03″ N

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Palu	[Taking time: 5.00 hr.]	☐ Highway	☐ Heavy	☑ Hotel	
By Car	to Ampana	[Taking time: 8:00 hr.]	☑ Paved	☑ Medium	☐ Motel	
			☐ Unpaved road	☐ Light		
				☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
☑ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑ ☐ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐ ☑ Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☐ ☑ Grounding system
☐ Valley	☑ Sandy		☑ Tide	☐ ☑ Lightning system
Altitude	2.00 M		Telephone Lines	☑ ☐ Feeder Cable Way
Land area	17.50 m²		☐ Lines	☑ ☐ City water

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Zinc
Type of ceiling	Triplex
Type of wall	Brick
Wall finish	Mortar
Flooring	Ceramic

Room Area (m²)	
Operation room	17.50
E / G room	
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	V
Phase	1	
Wire	2	
kVA	0.45	

Quality of PLN source	
Fluctuations	220 V ± 10 %
Availability of power per day	24 Hours
Power interruption /month	9 Times
Total interpt. hours /month	15 Hours
Max. interpt. hours at once	2 Hours

Existing Power Conditions	Good	Bad
☑ ☐ Power Supply System		
☐ ☐ Operations of E/G		
☐ ☐ Operations of AVR		

Capacity of fuel for engine	
Day tank	Liter
Main tank	k Liter

E/G Stand-by System

☐ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Repaired in Disnav Bitung
Examples of major failure	
Sufficiency of spares	

Records of damages		Environmental Conditions	Good	Bad	
☐ Heavy rainfall					
☐ Storm			☑	☐	External noises
☐ Lightning			☐	☑	Air pollution
☐ Other calamity					

Institutional and Human Statuses				
1	Budget	☐ Sufficient	☐ Reasonable	☑ Insufficient
2	Spares	☐ Enough	☐ Reasonable	☑ Not enough
3	Measuring eqpt /tools	☐ Enough	☐ Reasonable	☑ Not enough
4	Number of Operator	☐ Enough	☑ Reasonable	☐ Not enough
5	Number of Technician	☐ Enough	☐ Reasonable	☑ Not enough
6	Capability of Operator	☐ Skilled	☑ Not so bad	☐ Not capable
7	Capability of Technician	☐ Skilled	☐ Not so bad	☑ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief	1	
Operator (skilled)	1 ()	()
Technician (skilled)	()	()
Administrator		
Total	2	

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	AMPANA		
CLASS	4th-B	NO.	189

6. STATISTICAL COMMUNICATION TRAFFIC DATA

Maritime Safety					Public Telecommunication Service							
Years	TG	TEL	DSC	NBDP	Years	Telephone		TG Call	Years	Telephone		TG Call
						Call	Minute			Call	Minute	
1996					1991				1996			17
1997					1992			13	1997			7
1998					1993			5	1998			
1999					1994			5	1999			3
2000					1995				2000			3

7. COMMENTS

Suggestion	Request for GMDSS facility
Remarks	

INVENTORY

Site Name: Ampana

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		HF Transceiver	IC-M700		ICOM				Good
2		Transceiver	JSB-50		JRC				Damaged
1-2		**Receiver**							
1		Receiver	NMR1030K		JRC				Damaged
3		**Power Supply Equipment**							
3-1		**UPS & AVR**							
1		Power Supply	AR1030		Sumura				Good

STATUS OF TROUBLES

SITE NAME : AMPANA **APN-189-(1/1)**

Item / Equipment	Transceiver, Office Building / -		
Manufacturer	JRC		
Manufacturer in year	-		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☑ Aging		☑ Immediacy
	☐ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

Necessary own office building and official house, because for the time being utilized Ampana Port Office
Needed GMDSS Radio equipment

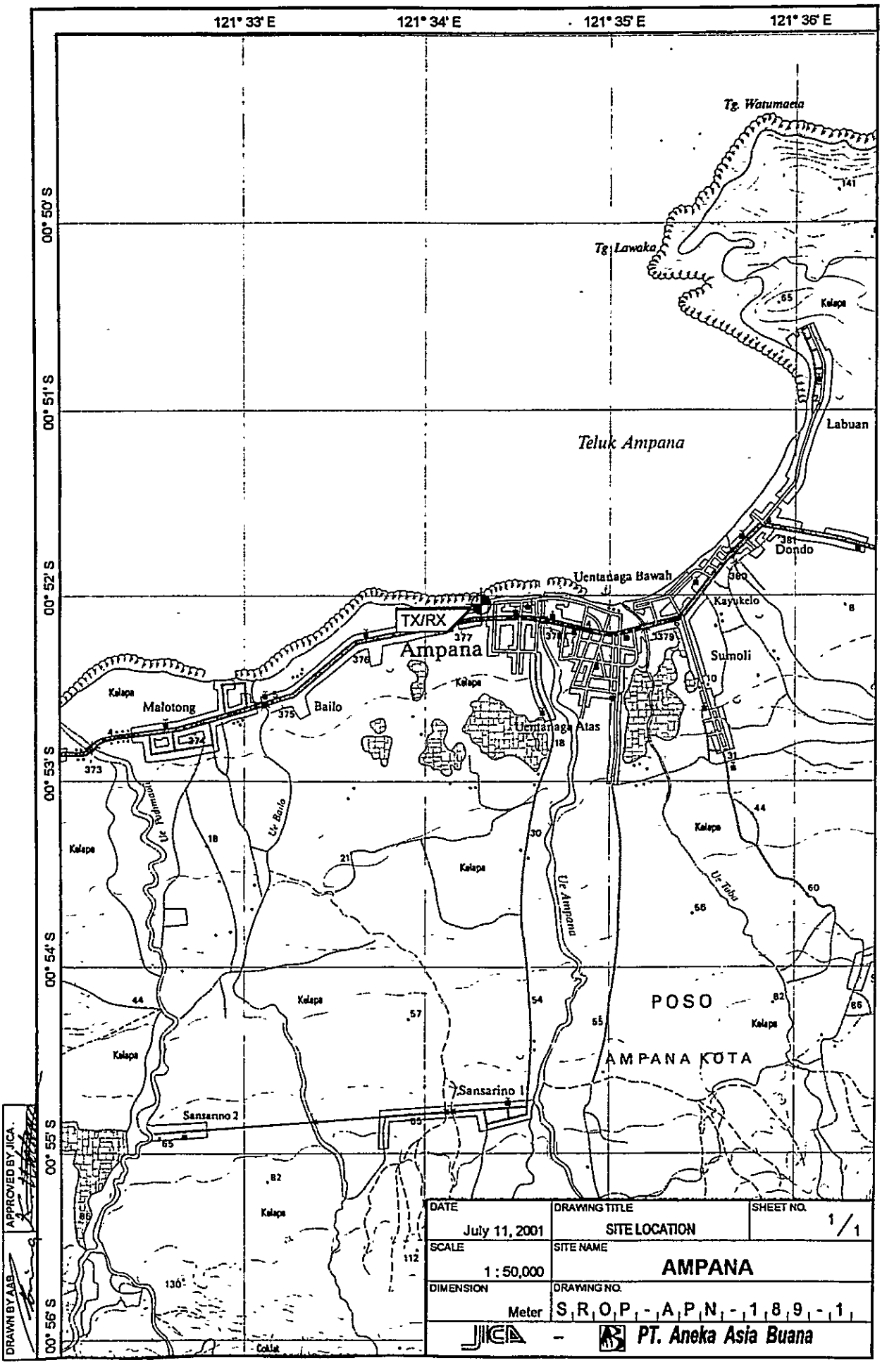
OPERATION SCHEDULE (FREQUENCIES)

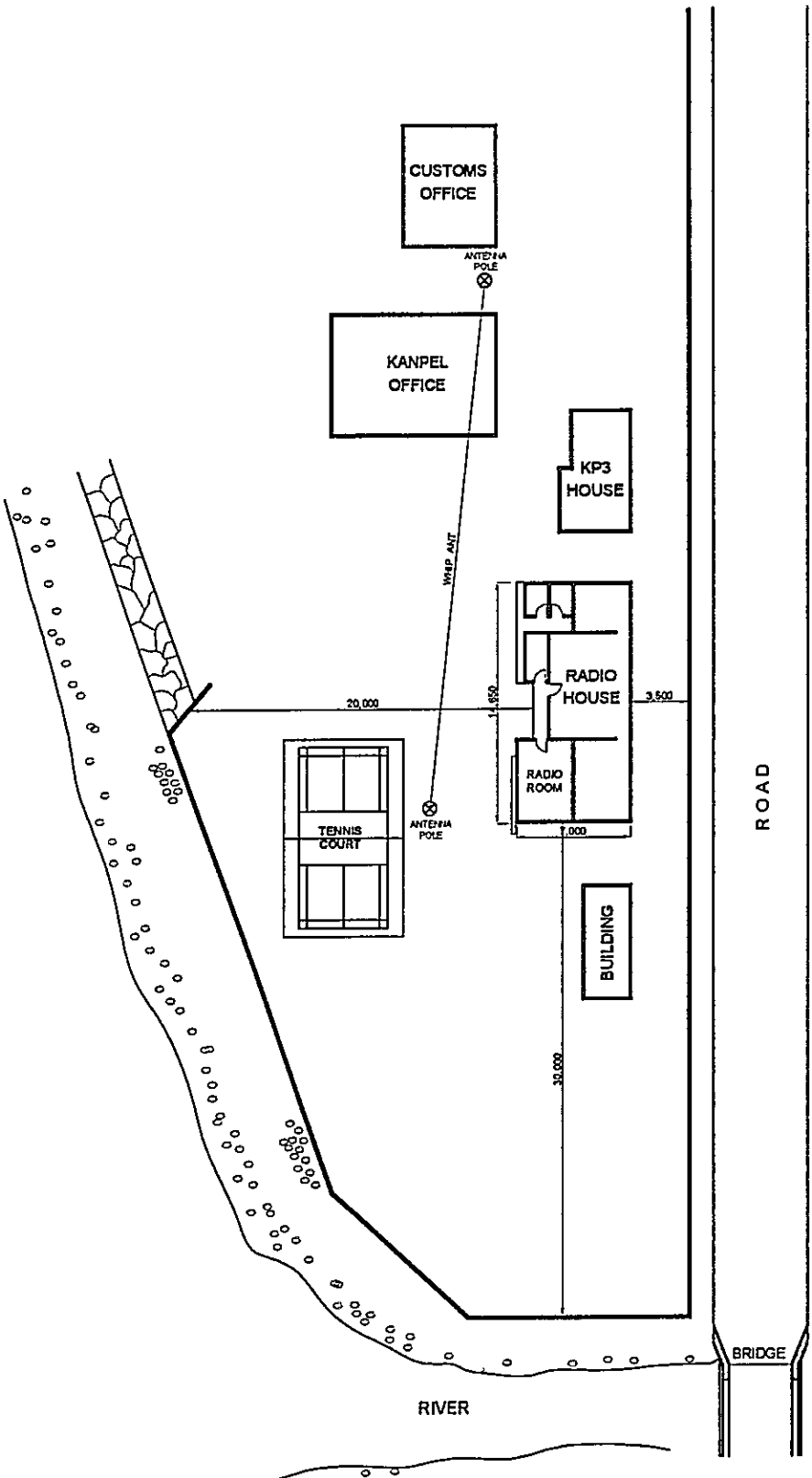
Site Name: Ampana

APN-189-(1/1)

Call Sign : Mobile Service : PKM.28
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2 182,0	J3E	100		
2	6.215,0	J3E	100		
3	6 510,0	J3E	100		
	VHF Service				
4	Channel-16	G3E	40		
	Fix Service				
5	5 381,5	J3E	100		
6	9 110,0	J3E	100		
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					


121° 33' E
121° 34' E
121° 35' E
121° 36' E
00° 50' S
00° 51' S
00° 52' S
00° 53' S
00° 54' S
00° 55' S
00° 56' S
Tg. Watumaeta
Tg. Lawaka
Teluk Ampana
Labuan
Dondo
Uentanaga Bawah
Kayukelo
Sumoli
TX/RX
Ampana
Malotong
Bailo
Uentanaga Atas
Kelapa
Ue Pulmadi
Ue Bailo
Ue Ampana
Ue Tuba
POSO
AMPANA KOTA
Sansarino 1
Sansarino 2
Coklat
APPROVED BY JICA
DRAWN BY AAB
DATE
July 11, 2001
DRAWING TITLE
SITE LOCATION
SHEET NO.
1/1
SCALE
1 : 50,000
SITE NAME
AMPANA
DIMENSION
Meter
DRAWING NO.
SROP-APN-189-1
JICA
PT. Aneka Asia Buana



DATE: August 03, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
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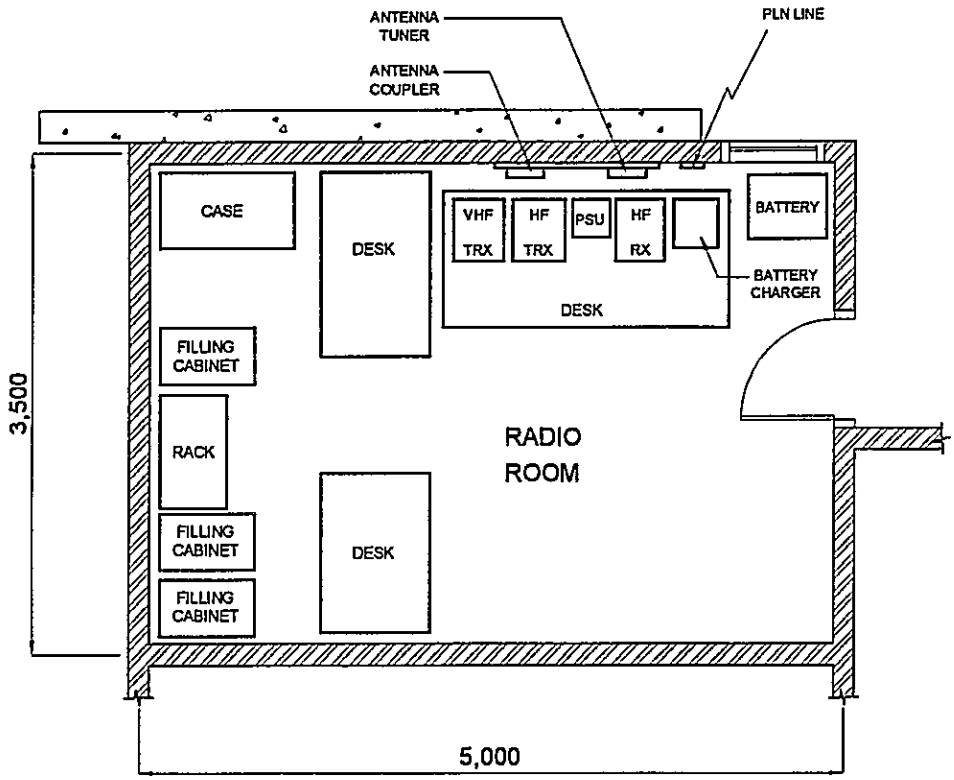
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,A,P,N,-,1,8,9,-,2,	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB

APPROVED BY JICA :

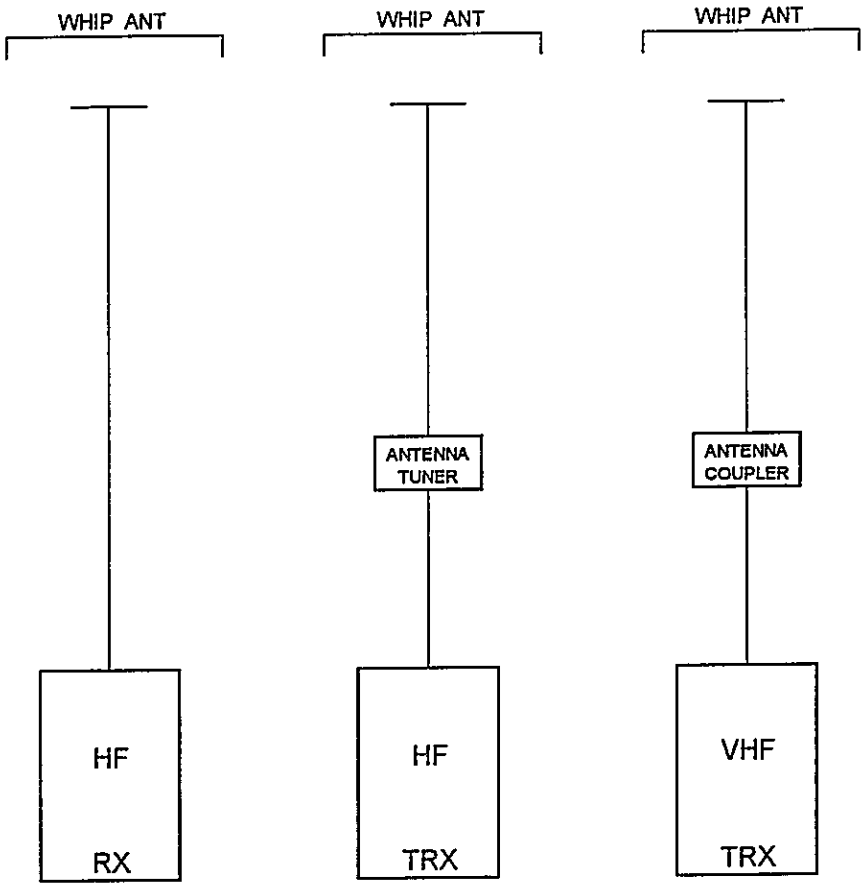


LEGEND

HF : HIGH FREQUENCY
PSU : POWER SUPPLY UNIT
RX : RECEIVER (ING)
TRX : TRANSCEIVER (ING)
VHF : VERY HIGH FREQUENCY

DATE: Sept 28, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: AMPANA	
DIMENSION: Milimeter	DRAWING NO.: S R O P - A P N - 1 8 9 - 3	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB
APPROVED BY JICA



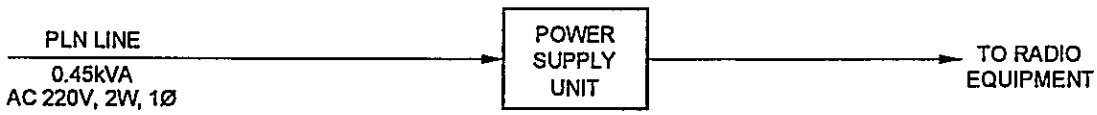
LEGEND

ANT : ANTENNA
HF : HIGH FREQUENCY
RX : RECEIVER (ING)
TRX : TRANSCEIVER (ING)
VHF : VERY HIGH FREQUENCY

APPROVED BY JICA

DRAWN BY AAB

DATE: July 30, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: AMPANA	
DIMENSION: Milimeter	DRAWING NO: SROP-APN-189-5	
JICA – PT. Aneka Asia Buana		



LEGEND

AC	: ALTERNATING CURRENT
AVR	: AUTOMATIC VOLTAGE REGULATOR
E/G	: ENGINE GENERATOR
kVA	: KILO VOLT AMPERE
TFS	: TRANSFER SWITCH
V	: VOLT
W	: WIRE / WATT
Ø	: PHASE

APPROVED BY JICA

DRAWN BY AAB

DATE: July 30, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: **AMPANA**	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,A,P,N,-,1,8,9,-,6,	
JICA –	PT. Aneka Asia Buana	

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-B Class Coast Station
Pagimana
(Coast Station No. 190)

Table of Content

Note :
☑ Available in this list
☒ Not Available in this list
☐ Unnecessary in this list
* Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	PAGIMANA		
CLASS	4th-B	NO.	190

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX				122° 39′ 03″ E	00° 47′ 35″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
	☐ Highway	☐ Heavy	☐ Hotel	
	☐ Paved	☐ Medium	☐ Motel	
	☐ Unpaved road	☐ Light		
		☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system	
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes	No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☐	☐ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐	☐ Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☐	☐ Grounding system
☐ Valley	☐ Sandy			☐	☐ Lightning system
Altitude	M		Telephone Lines	☐	☐ Feeder Cable Way
Land area	m²		☑ - Lines	☐	☐ City water

3.2 Building Conditions

Constructions	
Num. of story	
Structure	
Type of roof	
Type of ceiling	
Type of wall	
Wall finish	
Flooring	
Room Area (m²)	
Operation room	
E / G room	
Remark	Name only

3.3 Power Source

	PLN Source	E/G
Voltage	V	V
Phase		
Wire		
kVA		

Quality of PLN source		
Fluctuations	V ± %	
Availability of power per day	Hours	
Power interruption /month	Times	
Total interpt hours /month	Hours	
Max interpt. hours at once	Hours	

Existing Power Conditions		
Good	Bad	
☐	☐	Power Supply System
☐	☐	Operations of E/G
☐	☐	Operations of AVR

Capacity of fuel for engine	
Day tank	Liter
Main tank	k Liter

E/G Stand-by System

☐ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	
Examples of major failure	
Sufficiency of spares	

Records of damages	
☐ Heavy rainfall	
☐ Storm	
☐ Lightning	
☐ Other calamity	

Environmental Conditions		
Good	Bad	
☐	☑	External noises
☐	☑	Air pollution

Institutional and Human Statuses				
1	Budget	☐ Sufficient	☐ Reasonable	☐ Insufficient
2	Spares	☐ Enough	☐ Reasonable	☐ Not enough
3	Measuring eqpt./tools	☐ Enough	☐ Reasonable	☐ Not enough
4	Number of Operator	☐ Enough	☐ Reasonable	☐ Not enough
5	Number of Technician	☐ Enough	☐ Reasonable	☐ Not enough
6	Capability of Operator	☐ Skilled	☐ Not so bad	☐ Not capable
7	Capability of Technician	☐ Skilled	☐ Not so bad	☐ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief		
Operator (skilled)	()	()
Technician (skilled)	()	()
Administrator		
Total		

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	PAGIMANA		
CLASS	4th-B	NO.	190

6. STATISTICAL COMMUNICATION TRAFFIC DATA

Maritime Safety					Public Telecommunication Service							
Years	TG	TEL	DSC	NBDP	Years	Telephone		TG Call	Years	Telephone		TG Call
						Call	Minute			Call	Minute	
1996					1991				1996			
1997					1992				1997			
1998					1993				1998			
1999					1994				1999			
2000					1995				2000			

7. COMMENTS

Suggestion	
Remarks	No Data

INVENTORY

Site Name: Pagimana

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition

Data not Available doe to no Response from Coast Station

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Pagimana

PGM-190-(1/1)

Call Sign : Mobile Service :
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
1					
2					
3					
4					
5					
6					
7					
8					
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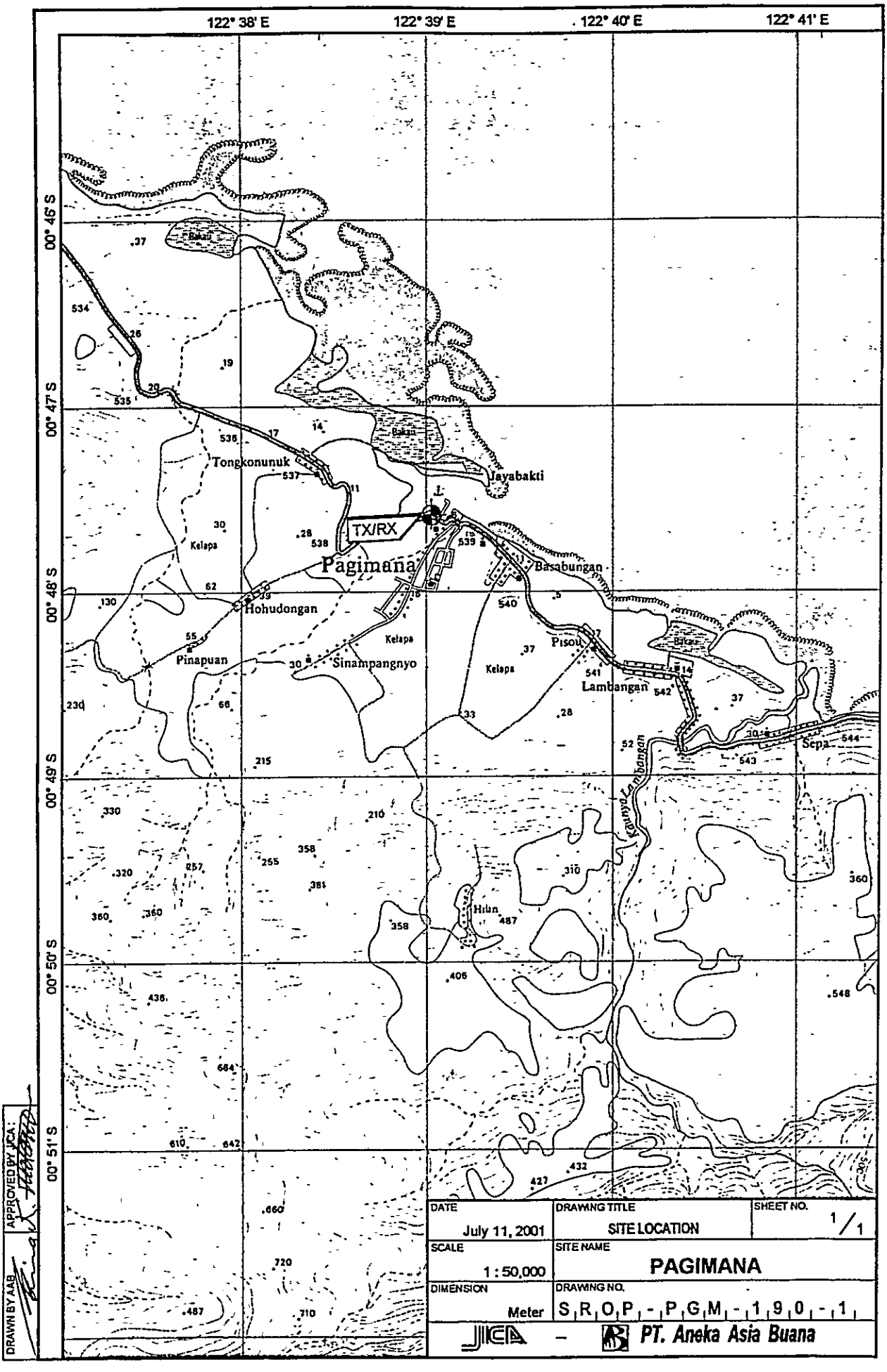
25					
26					
27					

Data not Available because Coast Station doesn't exists or Name only



DATE: July 11, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO.: 1/1
SCALE: 1 : 50,000	SITE NAME: PAGIMANA	
DIMENSION: Meter	DRAWING NO.: S R O P - P G M - 1 9 0 - 1	

DRAWN BY AAB

APPROVED BY JICA:

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