

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

4th-A Class Coast Station **Tarempa** (Coast Station No. 40)

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	TAREMPA		
	CLASS	4th-A	NO.	40

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelabuhan, Tarempa			106° 11' 52" E	03° 12' 56" N

2. GENERAL CONDITIONS				
Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Batam [Taking time: 2:00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	
By Air to Matak [Taking time: 2:00 hr.]	<input checked="" type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Motel	
By Ship to Tarempa [Taking time: 1:00 hr.]	<input type="checkbox"/> Unpaved road	<input checked="" type="checkbox"/> Light		
		<input type="checkbox"/> 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
<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	Yes No
<input type="checkbox"/> Slope	<input checked="" type="checkbox"/> Ordinary	<input type="checkbox"/> Flood	<input checked="" type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Flood Tide	<input type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay	<input type="checkbox"/> Rain Leakage	<input checked="" type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input type="checkbox"/> Sandy	<input type="checkbox"/> Ground Subsidence	<input checked="" type="checkbox"/> Lightning system
Altitude	3.00 M	Telephone Lines	<input type="checkbox"/> Feeder Cable Way
Land area	m ²	<input type="checkbox"/> Lines	<input type="checkbox"/> City water

3.2 Building Conditions		3.3 Power Source			
Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	One	Voltage	220 V	220 V	Good Bad
Structure	Concrete	Phase	1	1	<input checked="" type="checkbox"/> Power Supply System
Type of roof	Asbestos	Wire	2	2	<input checked="" type="checkbox"/> Operations of E/G
Type of ceiling	Triplex	kVA	1.3	3	<input checked="" type="checkbox"/> Operations of AVR
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	V ± %		Day tank Liter
Flooring	Tile	Availability of power per day	24 Hours	Main tank	k Liter
Room Area (m ²)		Power interruption /month	Times	E/G Stand-by System	
Operation room	6.00	Total interpt. hours /month	Hours	<input checked="" type="checkbox"/> Single System	
E / G room	12.00	Max. interpt. hours at once	Hours	<input type="checkbox"/> Dual System	
Remark					

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure				TX/RX				
Restoration flow	Repaired in District Navigation Tg. Pinang			Chief	1			
Examples of major failure	HF Transceiver and AT-120, damaged			Operator (skilled)	1	0	0	
Sufficiency of spares	Not available			Technician (skilled)	0	0	0	
Records of damages		Environmental Conditions		Administrator				
<input type="checkbox"/> Heavy rainfall		Good	Bad					
<input type="checkbox"/> Storm		<input checked="" type="checkbox"/>	<input type="checkbox"/> External noises	Total	2			
<input type="checkbox"/> Lightning		<input checked="" type="checkbox"/>	<input type="checkbox"/> Air pollution					
<input type="checkbox"/> Other calamity								
Institutional and Human Statuses				Training Record				
1 Budget	<input type="checkbox"/> Sufficient	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Insufficient	Course	Class	Location	Period	Trainee
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
3 Measuring eqpt./tools	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
4 Number of Operator	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
5 Number of Technician	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
6 Capability of Operator	<input type="checkbox"/> Skilled	<input checked="" type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					
7 Capability of Technician	<input type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input checked="" type="checkbox"/> Not capable					

SUMMARY OF COAST STATION	SITE	TAREMPA		
	CLASS	4th-A	NO.	40

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		2			1991	188			1996	199		
1997		4			1992	176			1997	188		
1998		3			1993	181			1998	197		
1999		4			1994	175			1999	211		
2000		4			1995	203			2000	209		

7. COMMENTS

Suggestion	
Remarks	

INVENTORY

Site Name: Tarempa

TRP-040- (1 / 1)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		MF/HF System	IC-M700		ICOM	1996			Good
1		HF Transceiver	JSB-50TR	022-30	INTI	1986			Damaged
2		HF Transceiver	FS-1000	5590-2527	Furuno	1988			Good
3		HF Transceiver							
1-2		VHF System							
1		VHF Transceiver	SE-305	3-3871	Phillips	1975			Good
2		VHF Transceiver	IC-M-58		ICOM	1996			Good
2		Tower & Antenna System							
2-1		Tower & Mast	Iron Pipe						
1		Antenna Tower				1996			
2-2		Antenna System							
1		Dipole Antenna				1995			
2		Whip Antenna (VHF)				1996			
2-3		Antenna Matching Unit							
1		Automatic Antenna Tuner	AT-130		ICOM	1996			Good
3		Power Supply Equipment							
3-1		UPS & AVR							
1		DC Power Supply	PS-80		VDO	1996			Damaged
2		Power Supply	PS-9940		WIDIO	1996			Good
3		Power Supply	RE-2000		WIDIO	1996			Good
4		Accumulator 12V/200AH			Century	1996			Good
5		Accu Charger	BC2415N		Lancer	1996			Damaged
6		Automatic Voltage Regulator	809L		AVR-008	1996			Good
3-2		Engine Generator							
1		Engine Generator	TS-60	14852	Yanmar	1973			Good
4		Measuring Equipment							
1		AVO Meter	EX-506		Sanwa	1995			Good
5		Others							
1		MF/VHF Booster	LA-2080M	20601	Daiwa	1996			Good
2		Panel Box				1996			Good
3		Tool Set			Diamond	1995			Good

Tanjung Pinang

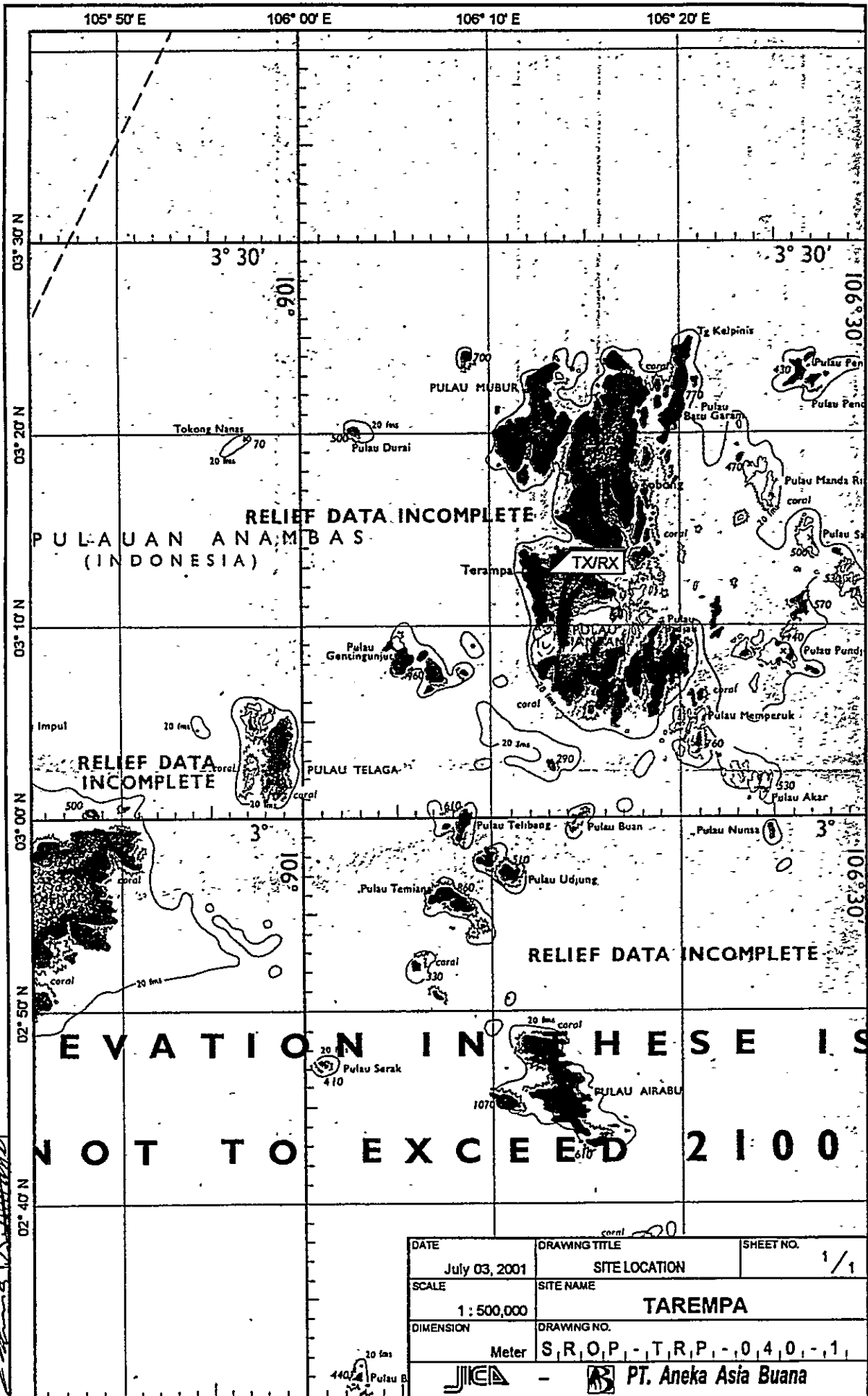
Site Name: Tarempa

OPERATION SCHEDULE (FREQUENCIES)

Call Sign : Mobile Service : PKJ.29

Fix Service :

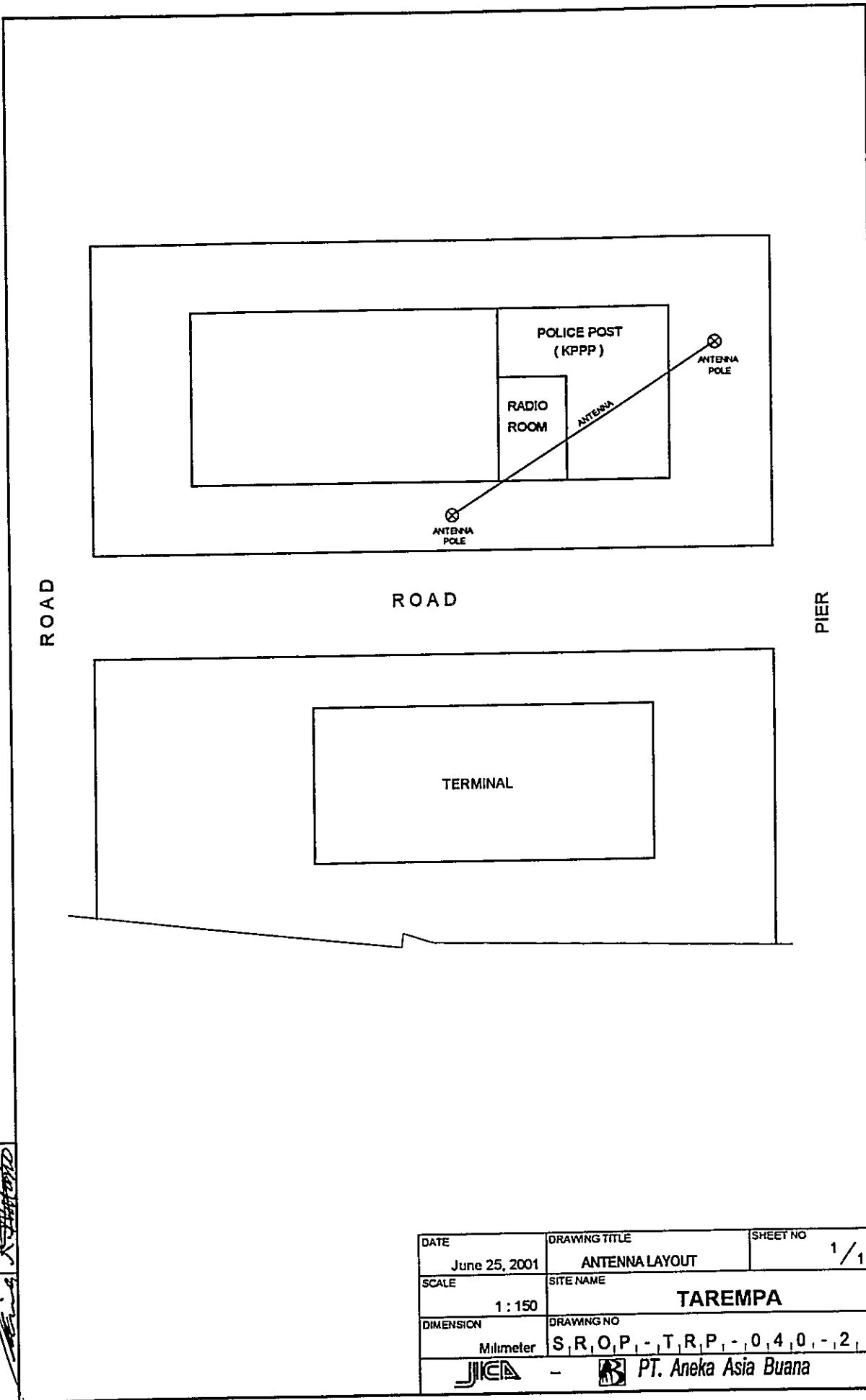
FREQUENCY (kHz)	EMISSION	POWER (W)	UTC																								REMARK
			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mobile Service																											
1 2.182.0	J3E	150																									
2 6.215.0	J3E	150																									
VHF Service																											
Channel-16	G3E	30																									
Fix Service																											
4 5.316.0	J3E	150																									
5 4.055.0	J3E	150																									
6 6.926.0	J3E	150																									
7 9.110.0	J3E	150																									
8																											
9																											
10																											
11																											
12																											
13																											
14																											
15																											
16																											
17																											
18																											
19																											
20																											
21																											
22																											
23																											





APPROVED BY JICA:

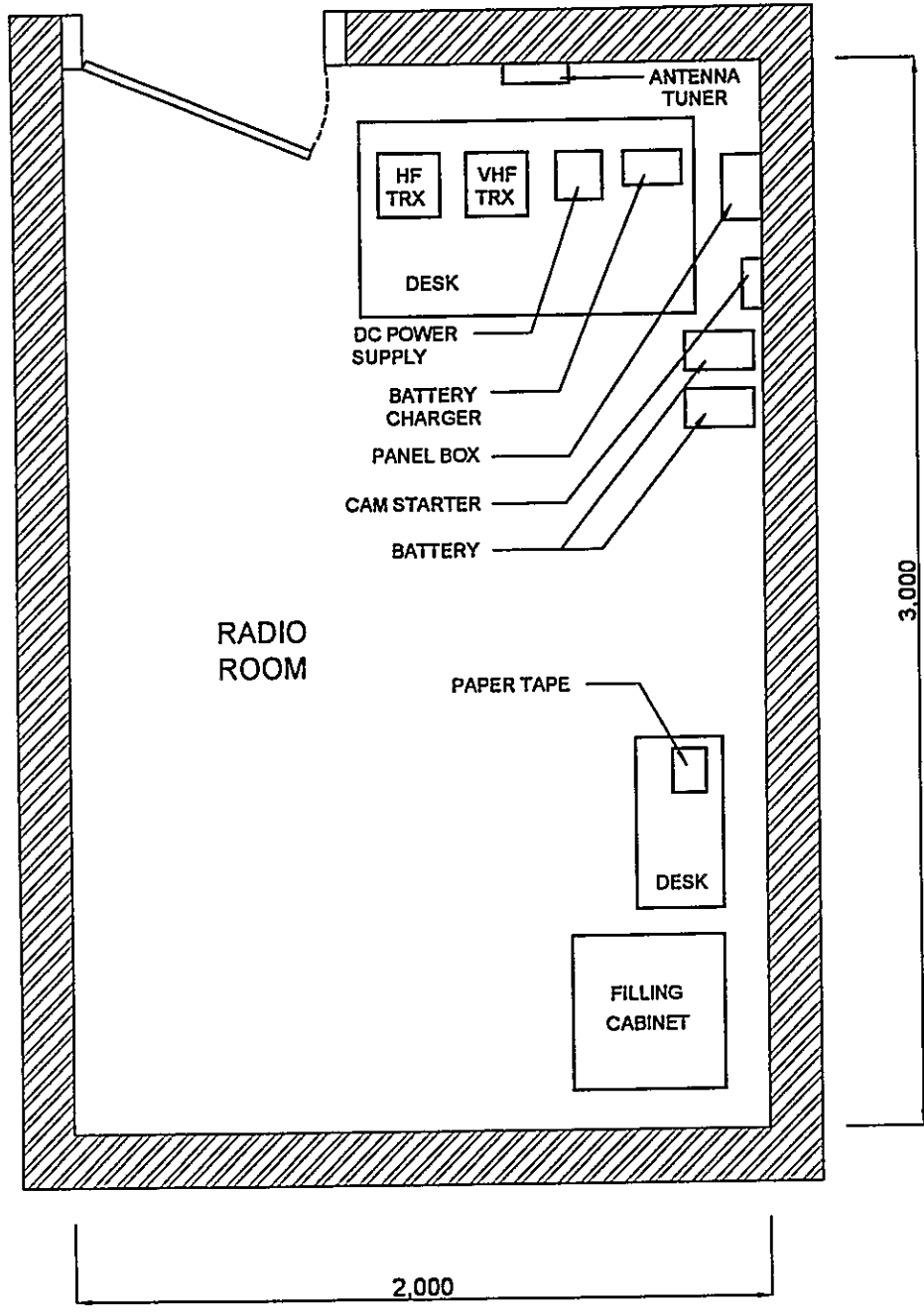
 DRAWN BY AAB:

DATE	DRAWING TITLE	SHEET NO.
July 03, 2001	SITE LOCATION	1/1
SCALE	SITE NAME	
1 : 500,000	TAREMPA	
DIMENSION	DRAWING NO.	
Meter	S, R, O, P, - T, R, P, - 0, 4, 0, - 1,	
- PT. Aneka Asia Buana		



DRAWN BY AAB
 APPROVED BY JICA


DATE	DRAWING TITLE	SHEET NO
June 25, 2001	ANTENNA LAYOUT	1/1
SCALE	SITE NAME	
1:150	TAREMPA	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, - T, R, P, - 0, 4, 0, - 2, 1	
 -  PT. Aneka Asia Buana		

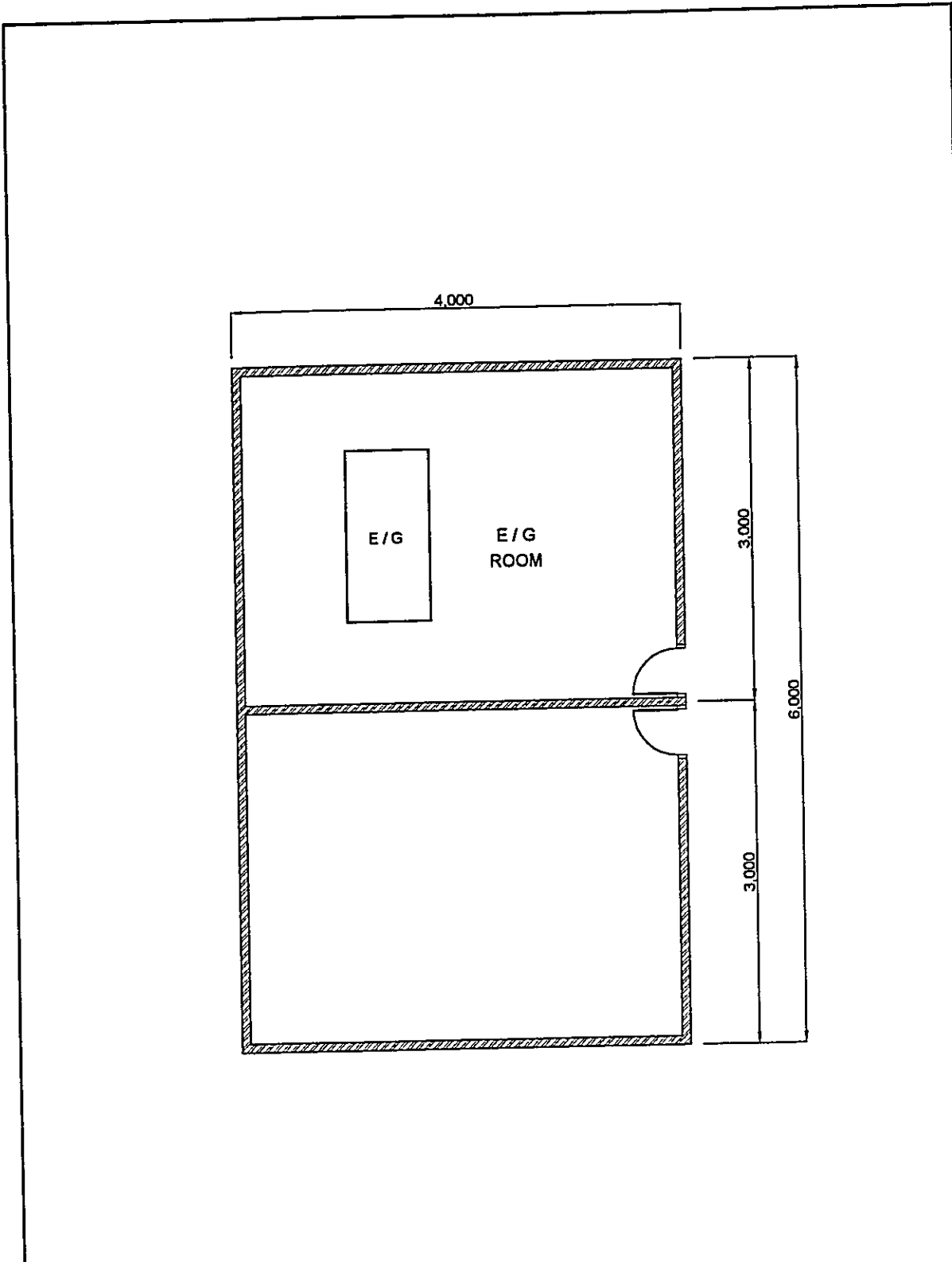


APPROVED BY JICA
 DRAWN BY AAB

LEGEND

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



DATE June 25, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT	SHEET NO 1 / 1
SCALE 1 : 20	SITE NAME TAREMPA	
DIMENSION Milimeter	DRAWING NO. S, R, O, P - T, R, P, - 0, 4, 0, - 3	
- PT. Aneka Asia Buana		



LEGEND

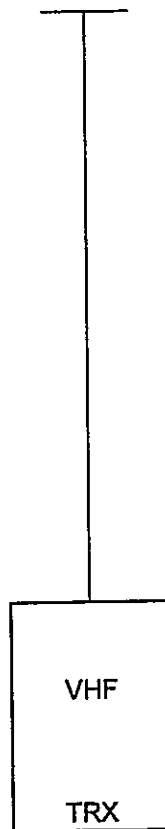
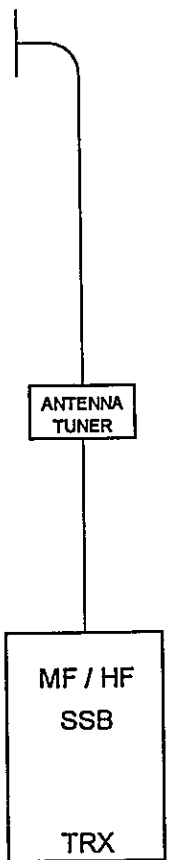
E/G : ENGINE GENERATOR

DRAWN BY AIG
APPROVED BY JICA: *[Signature]*

DATE June 25, 2001	DRAWING TITLE E/G FLOOR LAYOUT	SHEET NO. 1 / 1
SCALE 1 : 50	SITE NAME TAREMPA	
DIMENSION Milimeter	DRAWING NO S, R, O, P, - T, R, P, - 0, 4, 0, - 4, 1	
 -  PT. Aneka Asia Buana		

DIPOLE ANT

WHIP ANT

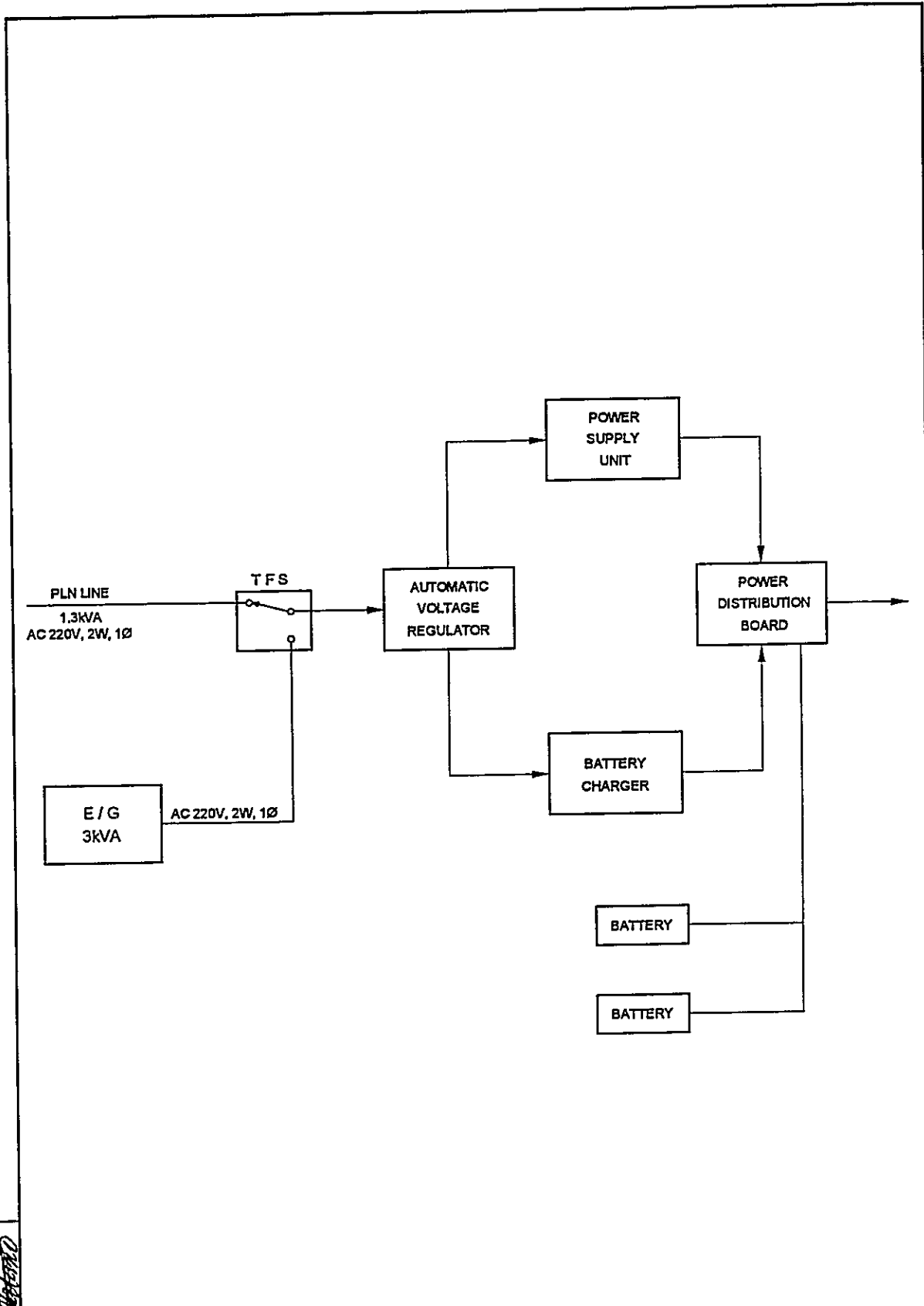


LEGEND

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

APPROVED BY JICA
 DRAWN BY AAB

DATE	DRAWING TITLE	SHEET NO
June 25, 2001	SYSTEM BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	TAREMPA	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, - T, R, P, - 0, 4, 0, - 5	
- PT. Aneka Asia Buana		



DRAWN BY AAB
 APPROVED BY JICA: *[Signature]*

DATE June 25, 2001	DRAWING TITLE POWER BLOCK DIAGRAM	SHEET NO 1 / 1
SCALE No Scale	SITE NAME TAREMPA	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, T, R, P, -, 0, 4, 0, - 6, 1	
- PT. Aneka Asia Buana		

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

**4th-A Class Coast Station
Tg. Balai Karimun
(Coast Station No. 41)**

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	TG. BALAI KARIMUN		
	CLASS	4th-A	NO.	41

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Yos Sudarso No. 1			103° 26' 14" E	00° 59' 17" N

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Batam [Taking time: 2:00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	
By Ship	to TBK [Taking time: 1:00 hr.]	<input checked="" type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input type="checkbox"/> Motel	
		<input type="checkbox"/> Unpaved road	<input checked="" type="checkbox"/> Light		
			<input type="checkbox"/> 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	
<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input type="checkbox"/> Flood	Yes	No
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input type="checkbox"/> Flood Tide	<input checked="" type="checkbox"/>	<input type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage	<input type="checkbox"/>	<input checked="" type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence	<input checked="" type="checkbox"/>	<input type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input checked="" type="checkbox"/> Sandy			<input checked="" type="checkbox"/>	<input type="checkbox"/> Lightning system
Altitude	1.00 M		Telephone Lines	<input type="checkbox"/>	<input checked="" type="checkbox"/> Feeder Cable Way
Land area	m ²		<input type="checkbox"/> Lines	<input type="checkbox"/>	<input checked="" type="checkbox"/> City water

3.2 Building Conditions			3.3 Power Source		
Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	One	Voltage	220 V	220 V	Good Bad
Structure	Concrete	Phase	1	1	<input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System
Type of roof	Asbestos	Wire	2	2	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of E/G
Type of ceiling	Plasterboard	kVA	3	3	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of AVR
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	V ± %		Day tank
Flooring	Tile	Availability of power per day	24 Hours	Main tank	Liter
Room Area (m ²)		Power interruption /month	Times	E/G Stand-by System	
Operation room	6.00	Total interpt. hours /month	Hours	<input checked="" type="checkbox"/>	Single System
E / G room	6.00	Max. interpt. hours at once	4 Hours	<input type="checkbox"/>	Dual System
Remark	One Power Supply damage				

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure				TX/RX				
Restoration flow	Repaired in District Navigation office Tg. Pinang			Chief	1			
Examples of major failure	HF Transceiver damaged			Operator (skilled)	0 0			
Sufficiency of spares				Technician (skilled)	0 0			
Records of damages		Environmental Conditions		Administrator				
<input type="checkbox"/> Heavy rainfall		Good	Bad					
<input type="checkbox"/> Storm		<input checked="" type="checkbox"/>	<input type="checkbox"/>	External noises	Total			
<input checked="" type="checkbox"/> Lightning	Eqpt. damage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Air pollution	1			
<input type="checkbox"/> Other calamity								
Institutional and Human Statuses				Training Record				
1 Budget	<input type="checkbox"/> Sufficient	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Insufficient	Course	Class	Location	Period	Trainee
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
3 Measuring eqpt./tools	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
4 Number of Operator	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
5 Number of Technician	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
6 Capability of Operator	<input type="checkbox"/> Skilled	<input checked="" type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					
7 Capability of Technician	<input type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					

SUMMARY OF COAST STATION	SITE	TG. BALAI KARIMUN		
	CLASS	4th-A	NO.	41

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		4			1991	260			1996	287		
1997		6			1992	275			1997	299		
1998		3			1993	245			1998	345		
1999		5			1994	311			1999	320		
2000		6			1995	302			2000	331		

7. COMMENTS	
Suggestion	Considering position of Tg. Balai Karimun near to Singapore, and increase traffic of passanger ship between Singapore - Tg. Balai Karimun, GMDSS Area A-1 will be needed. Therefore Tg Balai Karimun request to be completed with GMDSS equipment.
Remarks	

INVENTORY

Site Name: Tanjung Balai Karimun

TBK-041- (1 / 1)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		Transmitter	JSB-50	018-32	INTI	1980			Damaged
2		HF Transceiver	FS.1000	55.902.603	FURUNO	1989			Damaged
3		HF Transceiver	IC.M-700	50150	ICOM	1996			Good
1-2		VHF System							
1		VHF Transceiver	FM.400	277656	FURUNO	1989			Good
2		Tower & Antenna System							
2-1		Antenna System							
		TX Station							
1		L-Antenna	XW-49	018-32	INTI	1980			Damaged
2		Whip Antenna (VHF)	-	-	-	1989			Good
3		Dipole Antenna	-	-	-	1995			Good
2-2		Antenna Selector							
1		Automatic Antenna Tuner	-	-	-	1996			Good
3		Power Supply Equipment							
3-1		UPS & AVR							
1		Power Supply	PS.8920	-	VEDIO	1995			Good
2		Power Supply	NBA.901	-	INTI	1980			Damaged
3		Regulated DC Power Supply	RS.40XII	-	DAIWA	1996			Good
4		AVR-008	809L	-	-	1996			Good
3-2		Engine Generator							
1		Genset	TS-60	10118	YANMAR	1980			

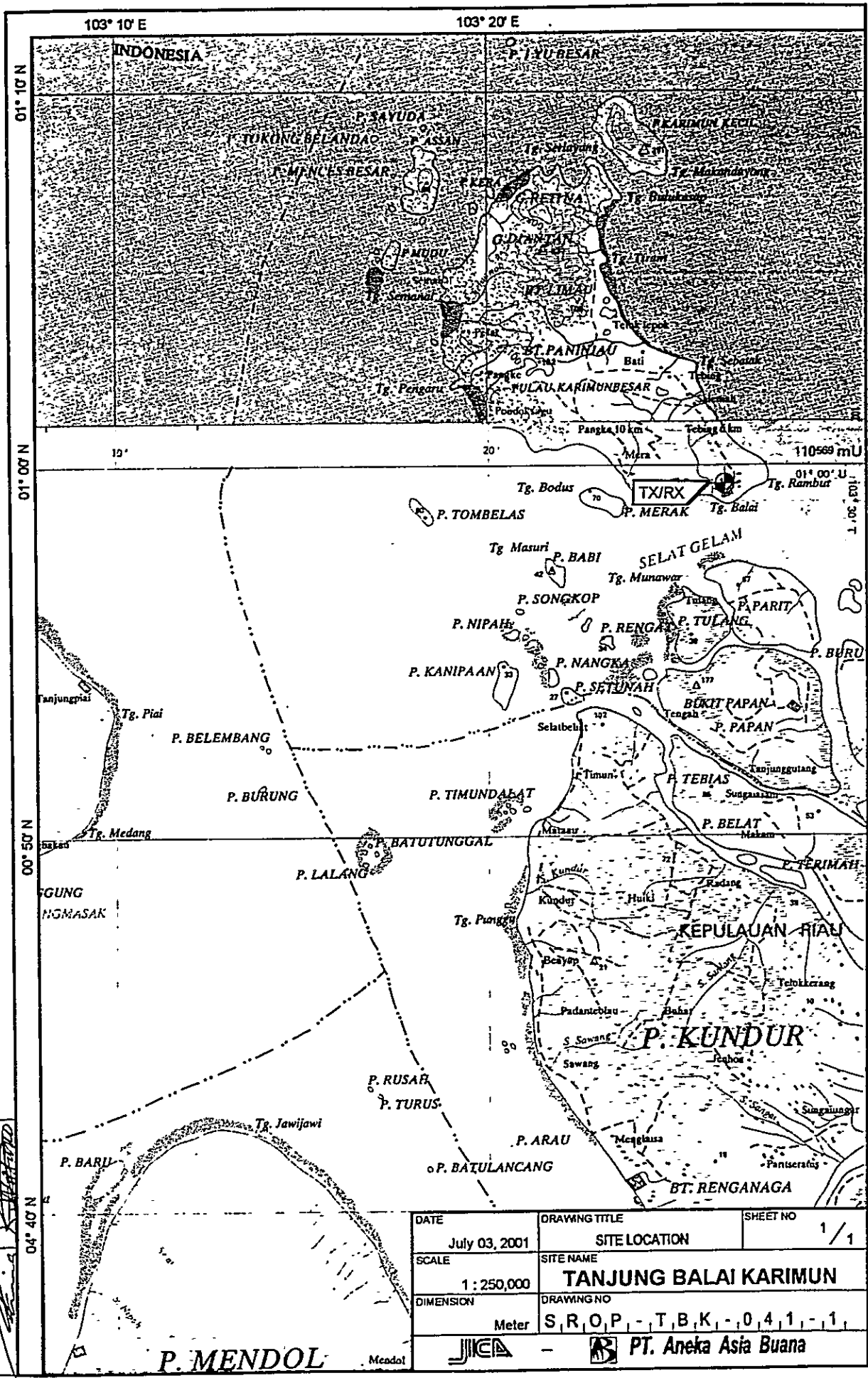
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Tanjung Balai Karimun

TBK-041-(1/1)

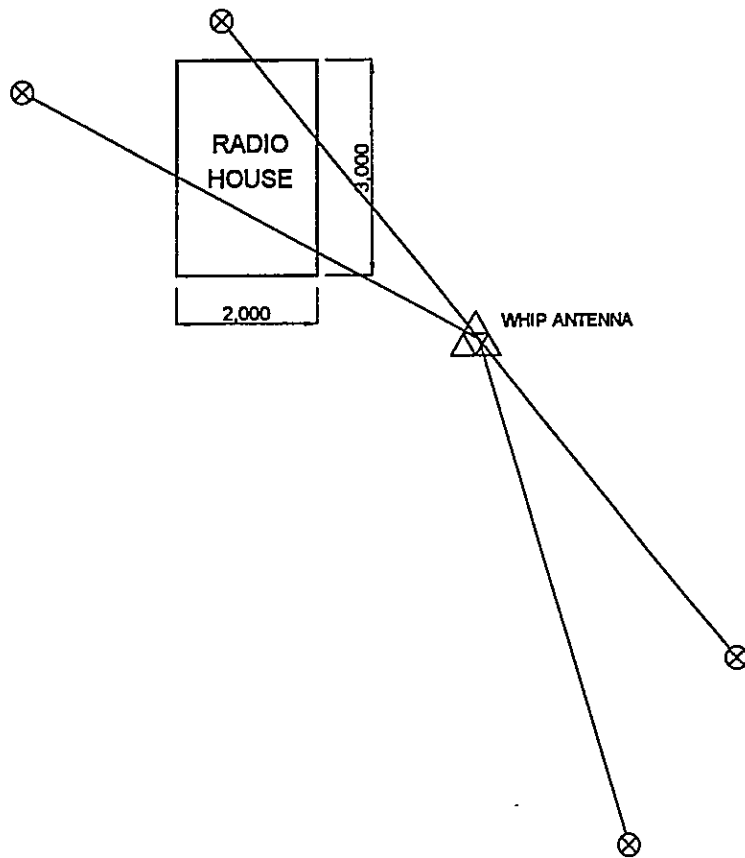
Call Sign : Mobile Service : PKJ.4
Fix Service :

FREQUENCY (KHz)	EMISSION	POWER (W)	UTC																								REMARK
			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mobile Service																											
1	J3E	150																									
2	J3E	150																									
VHF Service																											
3	G3E	30																									
Fix Service																											
4	J3E	150																									
5	J3E	150																									
6	J3E	150																									
7																											
8																											
9																											
10																											
11																											
12																											
13																											
14																											
15																											
16																											
17																											
18																											
19																											
20																											
21																											
22																											
23																											



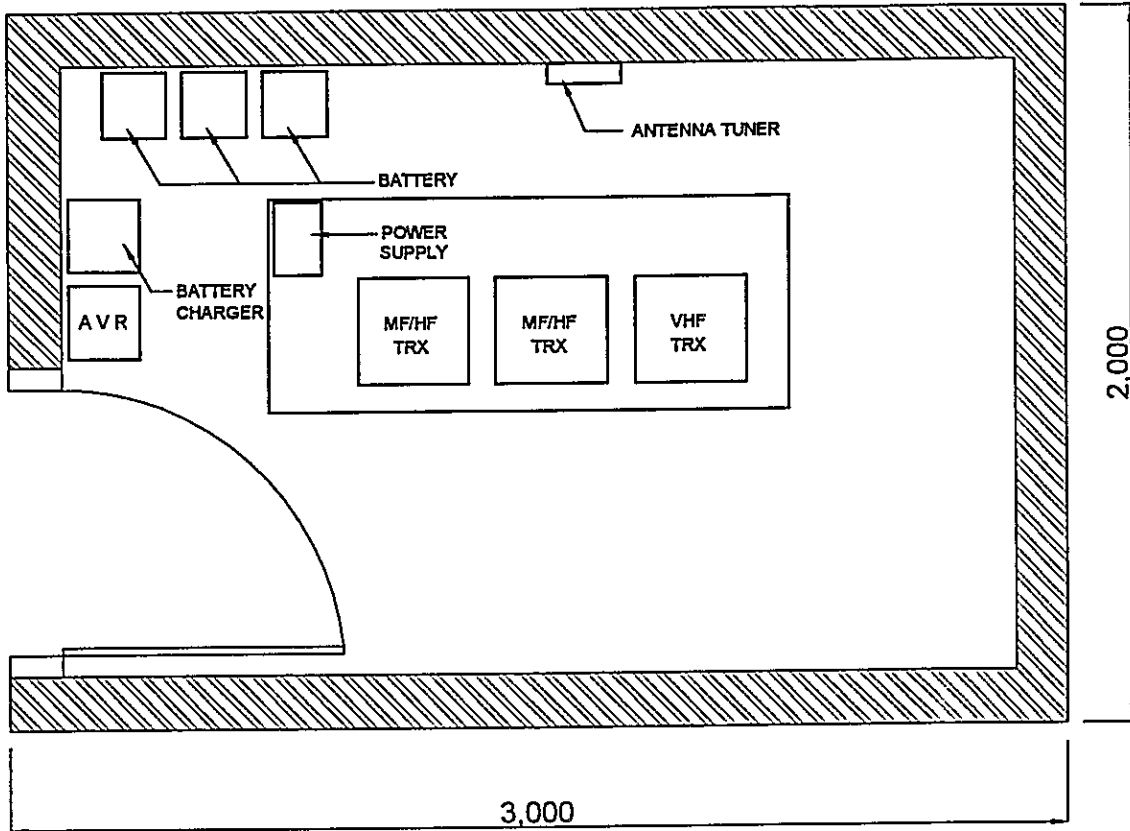
DATE	DRAWING TITLE	SHEET NO
July 03, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 250,000	TANJUNG BALAI KARIMUN	
DIMENSION	DRAWING NO	
Meter	S, R, O, P - T, B, K - 0, 4, 1 - 1,	

DRAWN BY AAB
 APPROVED BY JICA
 JICA



DRAWN BY AAB
 APPROVED BY JICA:
[Signature]



DATE	DRAWING TITLE	SHEET NO.
June 25, 2001	ANTENNA LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 100	TANJUNG BALAI KARIMUN	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, -, T, B, K, -, 0, 4, 1, -, 2, 1	
JICA	PT. Aneka Asia Buana	

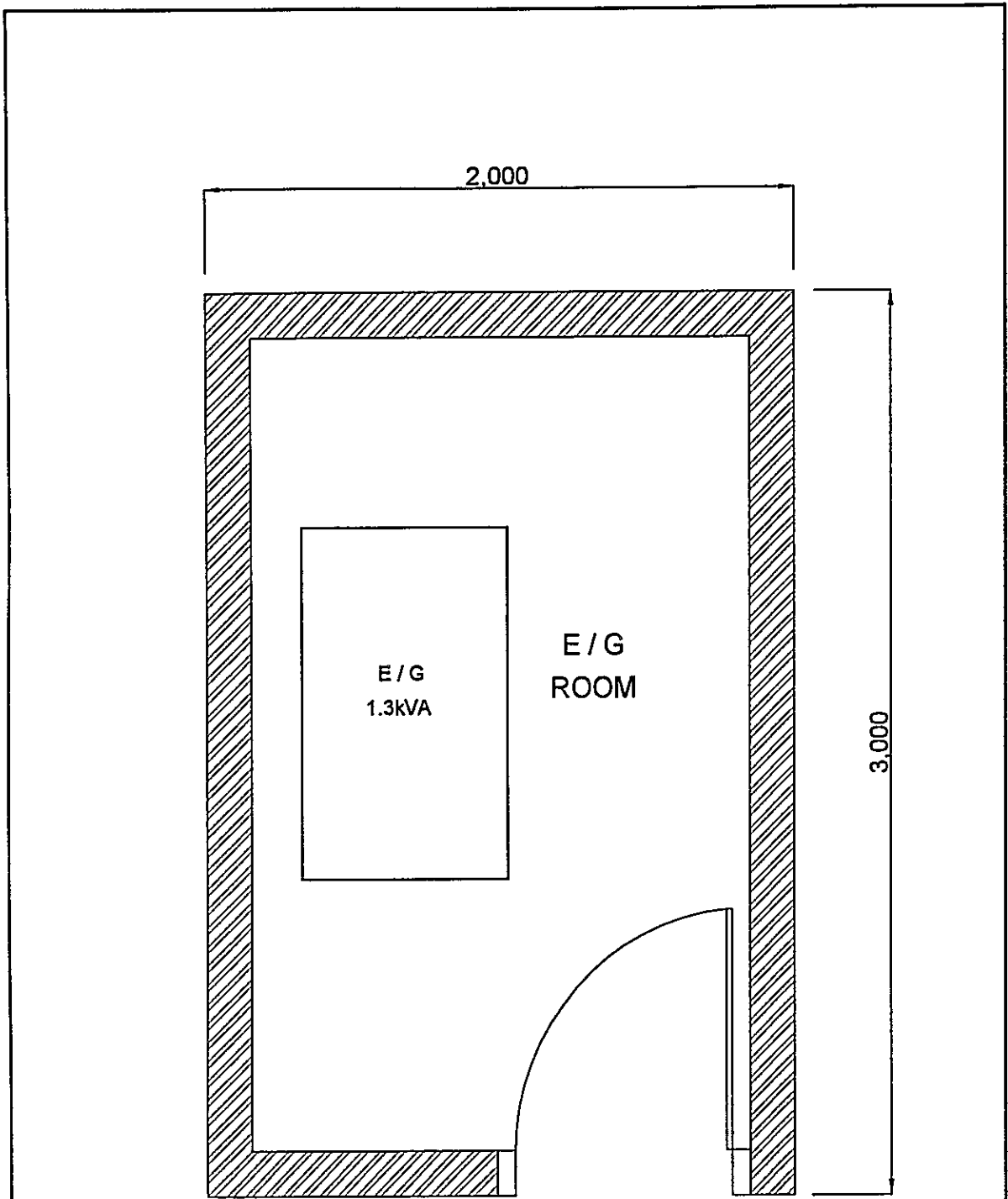


LEGEND

- AVR AUTOMATIC VOLTAGE REGULATOR
- HF HIGH FREQUENCY
- MF : MEDIUM FREQUENCY
- TRX TRANSCEIVER (ING)
- VHF VERY HIGH FREQUENCY

DRAWN BY: A.A.B. [Signature]
 APPROVED BY: JICA: [Signature]

DATE June 25, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT	SHEET NO 1/1
SCALE 1:20	SITE NAME TANJUNG BALAI KARIMUN	
DIMENSION Millimeter	DRAWING NO. S, R, O, P, -, T, B, K, -, 0, 4, 1, -, 3,	
 -  PT. Aneka Asia Buana		

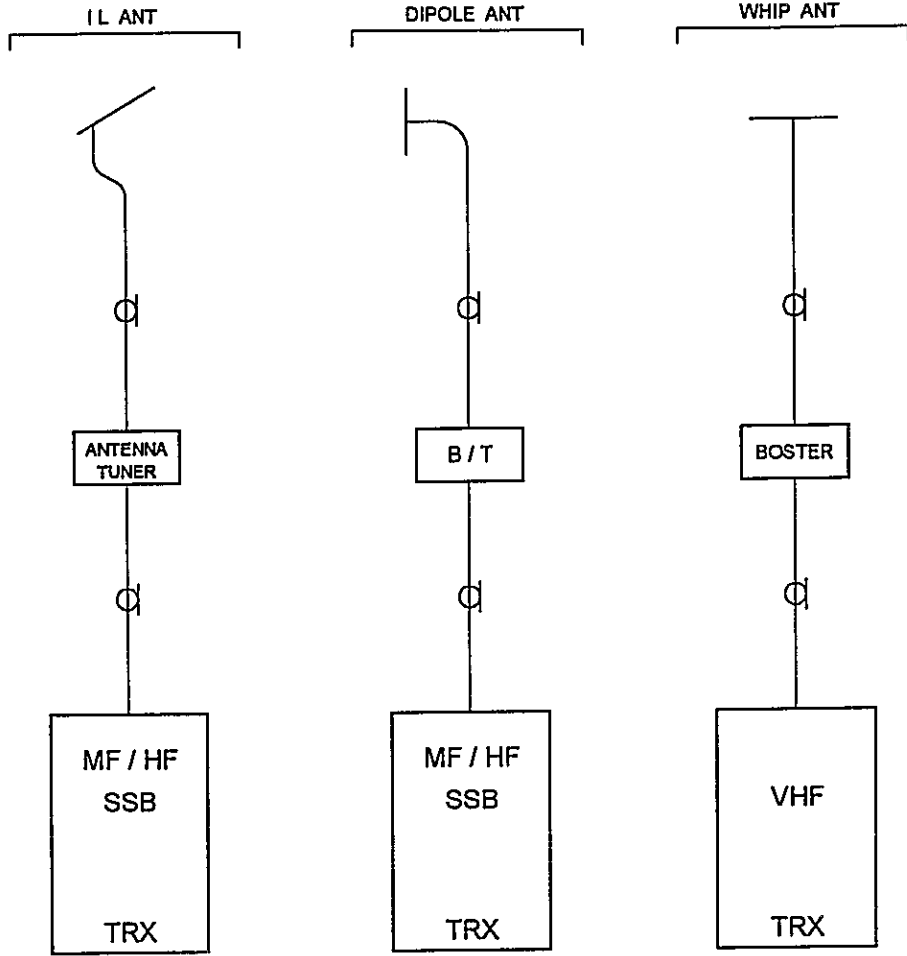


DRAWN BY AAB
 APPROVED BY JICA: *[Signature]*

LEGEND

E/G : ENGINE / GENERATOR
 KVA : KILO VOLT AMPERE

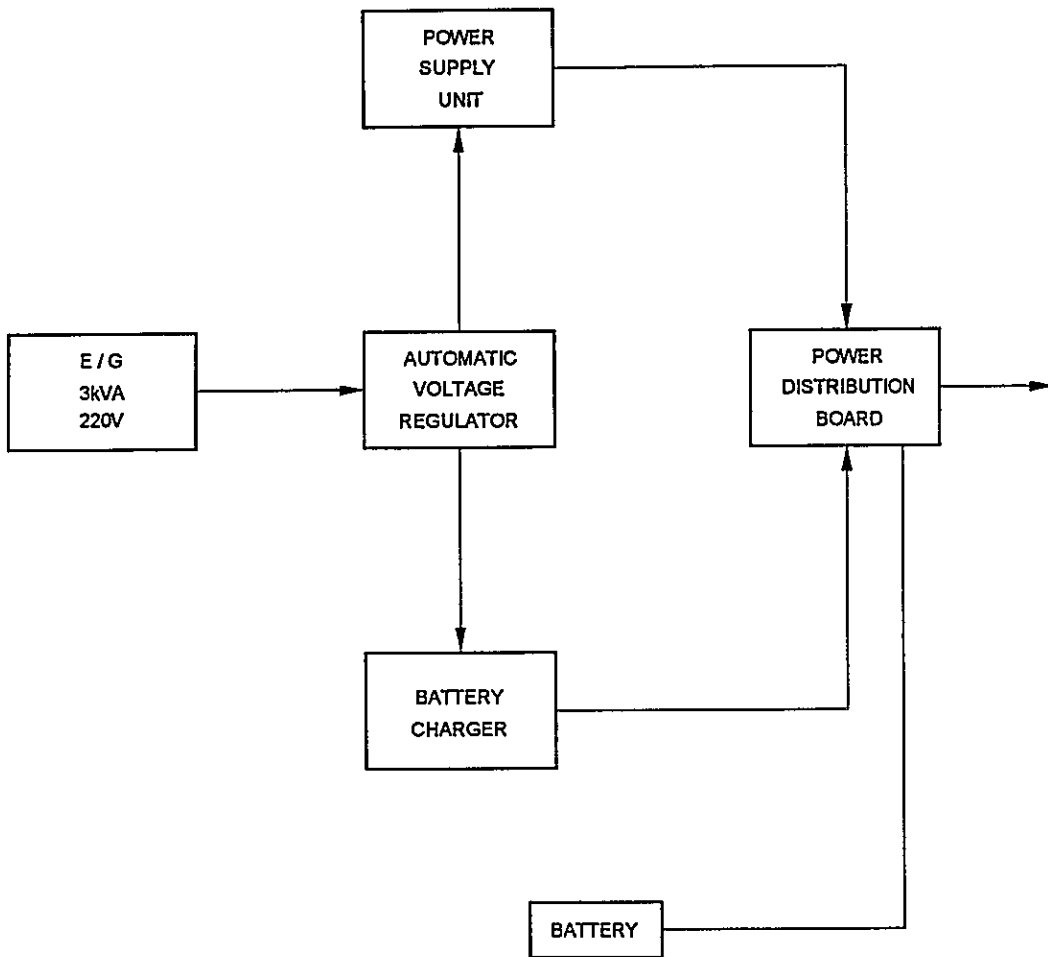
DATE	DRAWING TITLE	SHEET NO
June 25, 2001	E/G FLOOR LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 20	TANJUNG BALAI KARIMUN	
DIMENSION	DRAWING NO	
Millimeter	S, R, O, P, -, T, B, K, -, 0, 4, 1, -, 4,	



DRAWN BY: JICA
 APPROVED BY: JICA

- LEGEND**
- ANT : ANTENNA
 - B/T : BALUNS TRANS
 - HF : HIGH FREQUENCY
 - IL : INVERTED L
 - MF : MEDIUM FREQUENCY
 - TRX : TRANSCIVER (ING)
 - VHF : VERY HIGH FREQUENCY

DATE June 25, 2001	DRAWING TITLE SYSTEM BLOCK DIAGRAM	SHEET NO 1 / 1
SCALE No Scale	SITE NAME TANJUNG BALAI KARIMUN	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, T, B, K, -, 0, 4, 1, -, 5, 1	
- PT. Aneka Asia Buana		



DRAWN BY AAB
 APPROVED BY JICA.

DATE June 25, 2001	DRAWING TITLE POWER BLOCK DIAGRAM	SHEET NO. 1 / 1
SCALE No Scale	SITE NAME TANJUNG BALAI KARIMUN	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, -, T, B, K, -, 0, 4, 1, -, 6,	
- PT. Aneka Asia Buana		

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

4th-A Class Coast Station Pulau Sambu (Coast Station No. 42)

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	PULAU SAMBU		
	CLASS	4th-A	NO.	42

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelabuhan Pulau Sambu			103° 53' 58" E	01° 09' 08" N

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Batam [Taking time: 2.00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	
By Ship	to P. Sambu [Taking time: 1.00 hr.]	<input checked="" type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Motel	
		<input type="checkbox"/> Unpaved road	<input checked="" type="checkbox"/> Light		
			<input type="checkbox"/> 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
<input checked="" type="checkbox"/> Flat	<input checked="" type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input type="checkbox"/> Flood	Yes No
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input type="checkbox"/> Flood Tide	<input checked="" type="checkbox"/> <input type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage	<input type="checkbox"/> <input checked="" type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence	<input checked="" type="checkbox"/> <input type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input type="checkbox"/> Sandy			<input checked="" type="checkbox"/> <input type="checkbox"/> Lightning system
Altitude	3.00 M		Telephone Lines	<input type="checkbox"/> <input checked="" type="checkbox"/> Feeder Cable Way
Land area	m ²		<input type="checkbox"/> Lines	<input type="checkbox"/> <input checked="" type="checkbox"/> City water

3.2 Building Conditions		3.3 Power Source			
Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	One	Voltage	220 V	Good Bad	
Structure	Concrete	Phase	1	<input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System	
Type of roof	Asbestos	Wire	2	<input type="checkbox"/> <input type="checkbox"/> Operations of E/G	
Type of ceiling	Triplex	kVA	1.3	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of AVR	
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	V ± %	Day tank	Liter
Flooring	Tile	Availability of power per day	24 Hours	Main tank	k Liter
Room Area (m ²)		Power interruption /month	Times	E/G Stand-by System	
Operation room	30.00	Total interpt. hours /month	Hours	<input type="checkbox"/> Single System	
E / G room		Max interpt. hours at once	3 Hours	<input type="checkbox"/> Dual System	
Remark	Battery Damaged				

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure				TX/RX				
Restoration flow	Repaired in District Navigation Tg. Pinang			Chief	1			
Examples of major failure	Transceiver HF, damaged			Operator (skilled)	2 (1)		()	
Sufficiency of spares				Technician (skilled)	()		()	
Records of damages		Environmental Conditions		Administrator				
<input type="checkbox"/> Heavy rainfall		Good	Bad					
<input type="checkbox"/> Storm		<input checked="" type="checkbox"/>	<input type="checkbox"/> External noises	Total 3				
<input type="checkbox"/> Lightning		<input checked="" type="checkbox"/>	<input type="checkbox"/> Air pollution					
<input checked="" type="checkbox"/> Other calamity	Damaged by lightening							
Institutional and Human Statuses				Training Record				
1 Budget	<input type="checkbox"/> Sufficient	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Insufficient	Course	Class	Location	Period	Trainee
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough	Operator	ORU	Jakarta	1994	1
3 Measuring eqpt./tools	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough	Operator	III	Dumai	1988	1
4 Number of Operator	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
5 Number of Technician	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
6 Capability of Operator	<input type="checkbox"/> Skilled	<input checked="" type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					
7 Capability of Technician	<input type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input checked="" type="checkbox"/> Not capable					

SUMMARY OF COAST STATION	SITE	PULAU SAMBU		
	CLASS	4th-A	NO.	42

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		4			1991	95			1996	120		
1997		4			1992	103			1997	98		
1998		2			1993	101			1998	115		
1999		5			1994	97			1999	121		
2000		4			1995	107			2000	105		

7. COMMENTS

Suggestion	
Remarks	

INVENTORY

Site Name: Pulau Sambu

PLS-042- (1 / 2)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		Transmitter							
1		HF SSB Transceiver	IC-M700	50464	ICOM	1996			Good
2		HF SSB Transceiver	JSB-50	023-50	INTI	1980			Damaged
3		HF SSB Transceiver	PYE-130	5947	England	1976			Damaged
4		HF SSB Transceiver	PYE-130	2925	England	1976			Damaged
1-2		VHF System							
1		VHF Transceiver	IC-M58	13457	ICOM	1996			Good
2		VHF Transceiver	CMT	65263	Phillips	1976			Damaged
1-3		Receiver							
1		Receiver	FRG-7700	JK-220815	Yaesu	1983			Good
2		Tower & Antenna System							
2-1		Antenna System							
1		Open Dipole Antenna							Good
2		Whip Antenna (for VHF)				1976			Good
3		Whip Antenna (for VHF)				1976			Good
4		Booster	LA-208011	20601	ICOM Daiwa	1996			Good
2-2		Antenna Switch							
1		Antenne Selector	AT-130		ICOM	1996			Good
3		Power Supply Equipment							
3-1		UPS & AVR							
1		Power Supply	820 S		VDO	1980			Good
2		Power Supply	RS-40XII	0710	Daiwa	1996			Good
3		Accu Charger	BC-2415N		Lancer	1996			Good
4		Accu Charger	BC-2415N		Lancer	1996			Good
5		Automatic Voltage Regulator	809.L			1996			Good
6		Batteries (3 Unit)	N-200		USA	1996			Damaged
7		Battery			Osaka	1980			Damaged

Tanjung Pinang

INVENTORY

Site Name: Pulau Sambu

PLS-042- (2 / 2)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3-2		Engine Generator	TS-60		Yanmar	1980			Damaged
		Generator	TS-79		Hatz	1976			Damaged
4		Measuring Equipment							
		AVO Meter			Sarwa	1980			Damaged
		Mega Cycle Meter			Edison	1976			Damaged
		Signal Voltager			Grundig	1976			Damaged
		Signal Square Oscillator			Phillips	1976			Damaged
		Bridge Megger Test			Megger	1976			Damaged
5		Others							
		Fan			Mistral	1980			Damaged
		Clock			Strager	1976			Damaged
		Type Writer			Adler	1976			Damaged
		Chair			Warner	1976			Damaged
		Filling Cabinet				1976			Good
		Table				1976			Good
		Cupboard (2 Unit)				1976			Damaged
		Carr-Starter				1976			Good

STATUS OF TROUBLES

SITE NAME : PULAU SAMBU

PLS-42-(1/1)

Item / Equipment	- / -		
Manufacturer	-		
Manufacturer in year	-		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	<input type="checkbox"/> Aging		<input type="checkbox"/> Immediacy
	<input type="checkbox"/> Lightning		<input type="checkbox"/> By next year budget
	<input type="checkbox"/> Corrosion		<input type="checkbox"/> By next project
	<input type="checkbox"/> Lack of Spares		<input type="checkbox"/> Unnecessary
	<input type="checkbox"/> Others		
<u>General Comment for Maintenance:</u>			
For the time being Pulau Sambu Coast Station only completed by communication equipment, they are : Transceiver HF (1 Unit) and Transceiver VHF (1 Unit), therefore if there is trouble on the above equipment, the operational will be disturbed Connecting to the above condition, we request for spare unit			

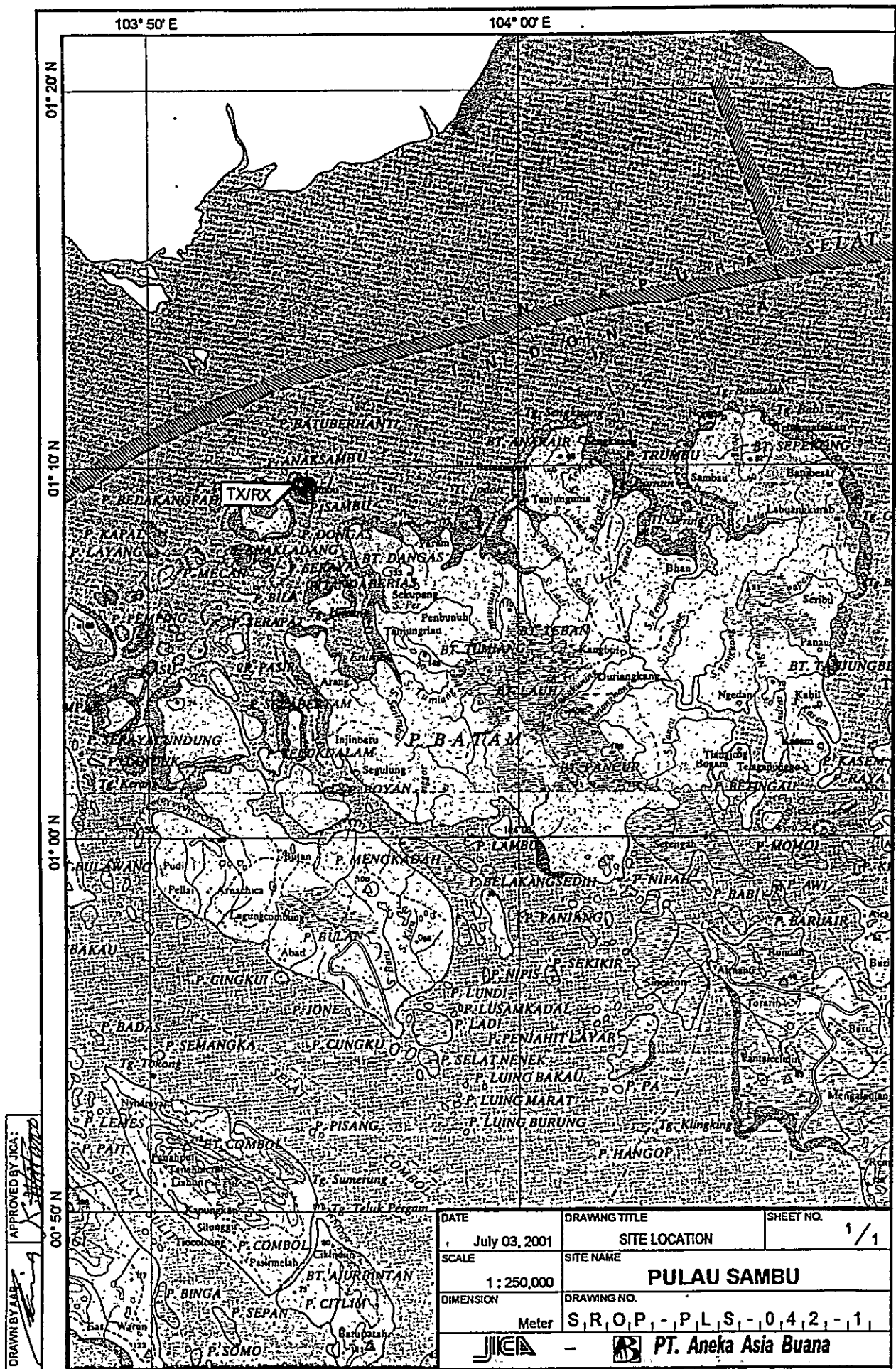
OPERATION SCHEDULE (FREQUENCIES)


Site Name: Pulau Sambu



PLS-042-(1/1)

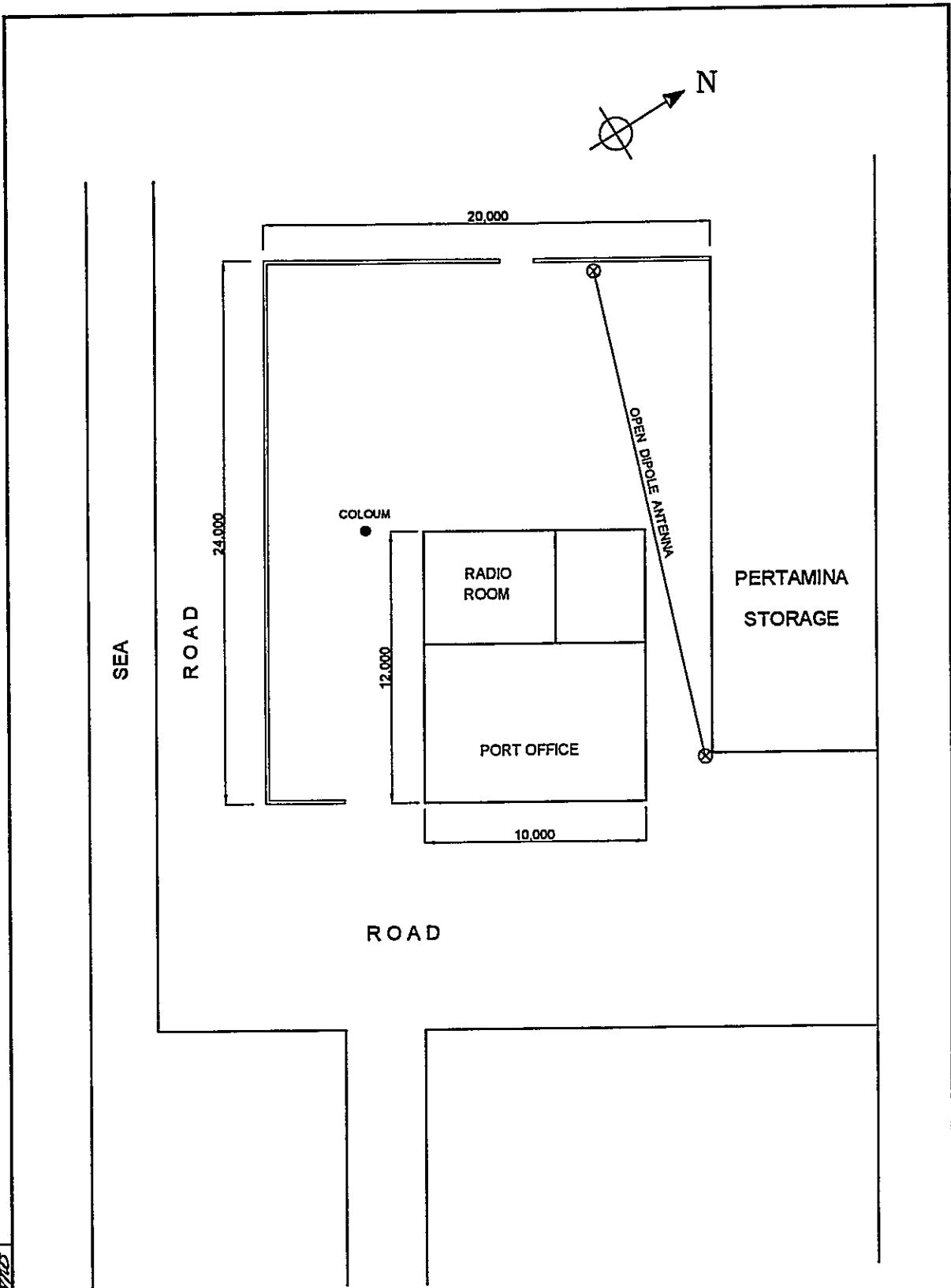
Call Sign : Mobile Service : PKJ3
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC																								REMARK
				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	2 182,0	J3E	150																									
2	6 215,0	J3E	150																									
3	VHF Service Channel-16	G3E	30																									
4	4 055,0	J3E	150																									
5	5 316,0	J3E	150																									
6	6 926,0	J3E	150																									
7																												
8																												
9																												
10																												
11																												
12																												
13																												
14																												
15																												
16																												
17																												
18																												
19																												
20																												
21																												
22																												
23																												



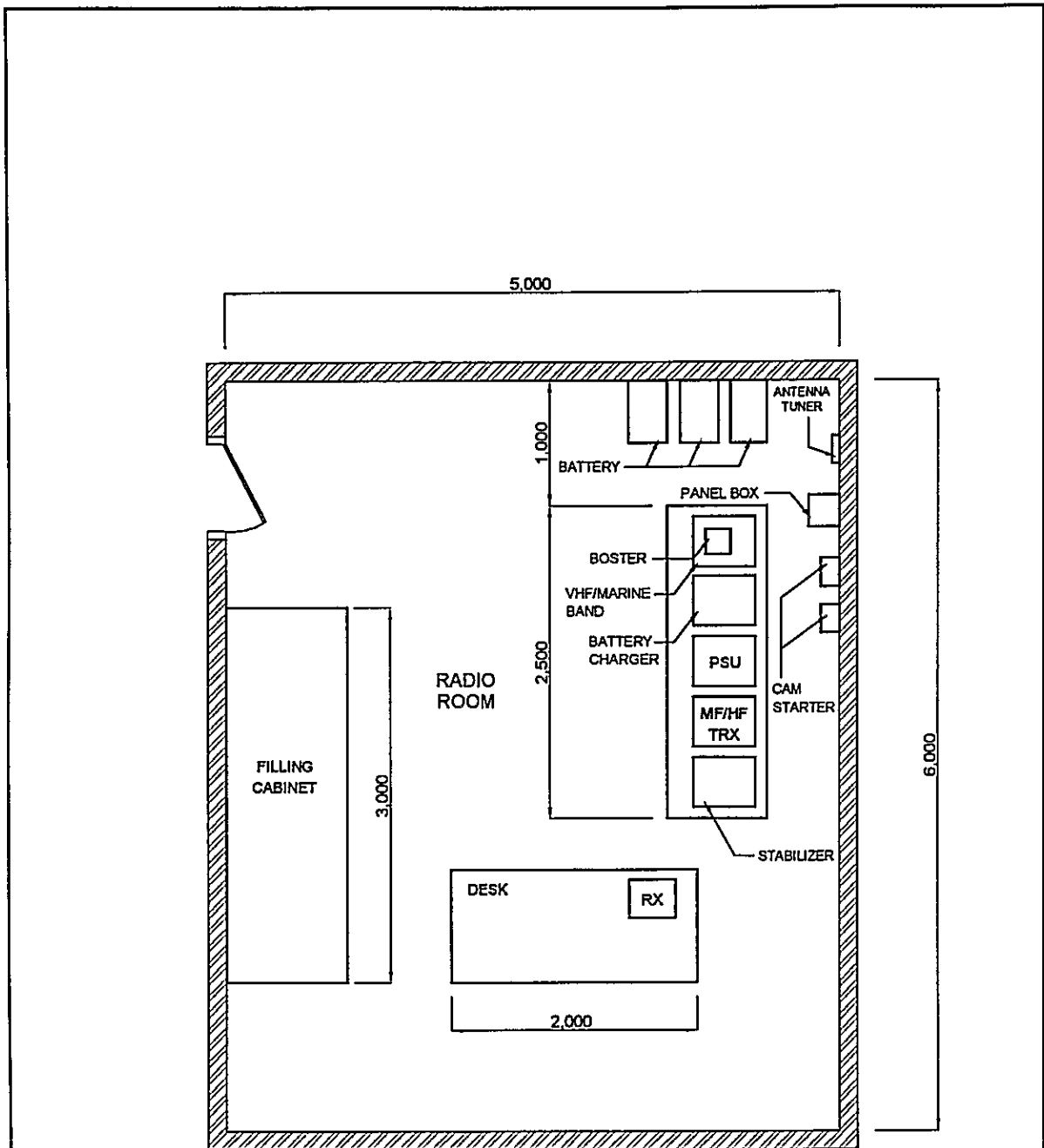
APPROVED BY JICA: 
 DRAWN BY ABB: 

DATE	July 03, 2001	DRAWING TITLE	SITE LOCATION	SHEET NO.	1/1
SCALE	1:250,000	SITE NAME	PULAU SAMBU		
DIMENSION	Meter	DRAWING NO.	S,R,O,P,-P,L,S,-0,4,2,-1		
		 PT. Aneka Asia Buana			



DRAWN BY AAB
 APPROVED BY JICA:



DATE June 25, 2001	DRAWING TITLE ANTENNA LAYOUT	SHEET NO. 1/1
SCALE 1 : 250	SITE NAME PULAU SAMBU	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, - P, L, S, - 0, 4, 2, - 2,	
- PT. Aneka Asia Buana		



DRAWN BY AAB
 APPROVED BY JICA


LEGEND

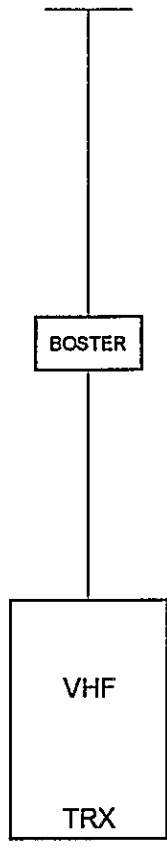
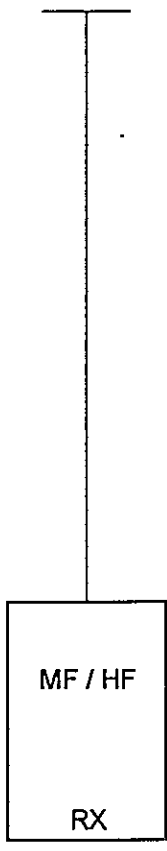
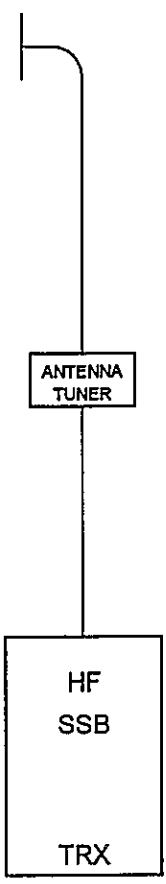
- HF HIGH FREQUENCY
- MF MEDIUM FREQUENCY
- PSU POWER SUPPLY UNIT
- RX RECEIVER (ING)
- TRX . TRANSCIVER (ING)
- VHF . VERY HIGH FREQUENCY

DATE June 25, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT	SHEET NO 1 / 1
SCALE 1 : 50	SITE NAME PULAU SAMBU	
DIMENSION Milimeter	DRAWING NO S, R, O, P, - , P, L, S, - , 0, 4, 2, - , 3, 1	
 -  PT. Aneka Asia Buana		

OPEN DIPOLE ANT

WHIP ANT

WHIP ANT

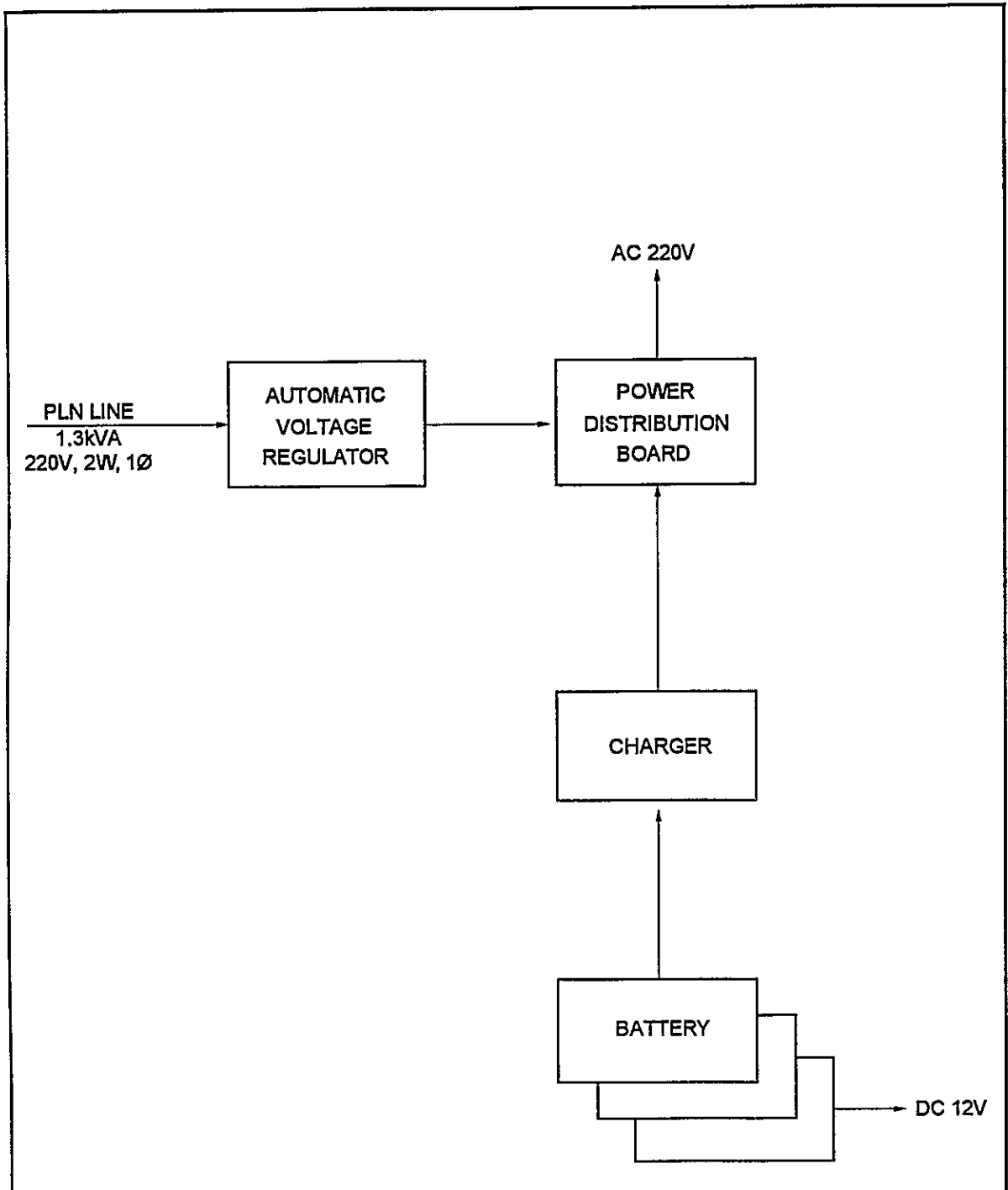


LEGEND

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

DRAWN BY AAB
 APPROVED BY JICA:

DATE	DRAWING TITLE	SHEET NO
June 25, 2001	SYSTEM BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	PULAU SAMBU	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, -, P, L, S, -, 0, 4, 2, -, 5, 1	
- PT. Aneka Asia Buana		



DRAWN BY AAB
 APPROVED BY JICA

DATE	DRAWING TITLE	SHEET NO
June 25, 2001	POWER BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	PULAU SAMBU	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, - , P, L, S, - , 0, 4, 2, - , 6, 1	
- PT. Aneka Asia Buana		

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

**4th-A Class Coast Station
Tg. Pinang
(Coast Station No. 43)**

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	TANJUNG PINANG		
	CLASS	4th-A	NO.	43

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Bukit Semprong 28	0771-21571		104° 26' 26" E	00° 55' 50" N

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Batam [Taking time 2:00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	55,060
By Ship	to Tg. Pinang [Taking time: 1:00 hr.]	<input checked="" type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input type="checkbox"/> Motel	
By Car	to Location [Taking time: 0.30 hr.]	<input type="checkbox"/> Unpaved road	<input checked="" type="checkbox"/> Light		
			<input type="checkbox"/> None		

3. CONDITIONS OF STATION	Refer to attached drawing
--------------------------	---------------------------

3.1 Site Conditions			
Topography	Nature of Soil		Past disaster of site
<input type="checkbox"/> Flat	<input checked="" type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input type="checkbox"/> Flood
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input type="checkbox"/> Flood Tide
<input checked="" type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence
<input type="checkbox"/> Valley	<input type="checkbox"/> Sandy		
Altitude	16.00 M		Telephone Lines
Land area	1,140 m ²		<input checked="" type="checkbox"/> 1 Lines

3.2 Building Conditions		3.3 Power Source			
Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	One	Voltage	220 V	Good Bad	
Structure	Concrete	Phase	1	<input type="checkbox"/> <input checked="" type="checkbox"/> Power Supply System	
Type of roof	Asbestos	Wire	2	<input type="checkbox"/> <input checked="" type="checkbox"/> Operations of E/G	
Type of ceiling	Plasterboard	kVA	3.5	<input type="checkbox"/> <input checked="" type="checkbox"/> Operations of AVR	
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	V ± %	Day tank	Liter
Flooring	Tile	Availability of power per day	24 Hours	Main tank	k Liter
Room Area (m ²)		Power interruption /month	3 Times	E/G Stand-by System	
Operation room	12.00	Total interpt. hours /month	12 Hours	<input checked="" type="checkbox"/> Single System	
E / G room	20 00	Max. interpt. hours at once	12 Hours	<input type="checkbox"/> Dual System	
Remark					

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure						TX/RX		
Restoration flow	Repaired in District Navigation Tg. Pinang			Chief			1	
Examples of major failure	Antenna Tuner damaged by lightening			Operator (skilled)			1 () ()	
Sufficiency of spares				Technician (skilled)			() ()	
Records of damages		Environmental Conditions		Administrator				
<input type="checkbox"/> Heavy rainfall		Good	Bad					
<input type="checkbox"/> Storm		<input checked="" type="checkbox"/>	<input type="checkbox"/> External noises	Total				
<input checked="" type="checkbox"/> Lightning	Antenna Tuner	<input checked="" type="checkbox"/>	<input type="checkbox"/> Air pollution	2				
<input type="checkbox"/> Other calamity								
Institutional and Human Statuses				Training Record				
1 Budget	<input type="checkbox"/> Sufficient	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Insufficient	Course	Class	Location	Period	Trainee
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough	Operator	C-III	Dumai	1988	1
3 Measuring eqpt /tools	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
4 Number of Operator	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
5 Number of Technician	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
6 Capability of Operator	<input type="checkbox"/> Skilled	<input checked="" type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					
7 Capability of Technician	<input type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input checked="" type="checkbox"/> Not capable					

SUMMARY OF COAST STATION	SITE	TANJUNG PINANG		
	CLASS	4th-A	NO.	43

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		5			1991	1,605			1996	1,792		
1997		6	4		1992	1,597			1997	1,8		
1998		10	5		1993	1,82			1998	1,756		
1999		10	2		1994	1,775			1999	1,705		
2000		12			1995	1,675			2000	1,818		

7. COMMENTS

Suggestion	
Remarks	Antenna Tower has been old, it is almost brooke. All eqpt. installed (Sailor and T & T) have been removed to Sei Kolak Kijang

INVENTORY

Site Name: Tanjung Pinang

TGP-043- (1 / 2)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		MF/HF System	JSB-50	TR-12602430	INTI	1980			Damaged
2		HF Transceiver	UTS-10S-10	3B542	UTS	1982			Damaged
3		HF Transceiver	PYE SSB-130M	3938		1971			Damaged
4		HF Transceiver	IC-M-700	42047	ICOM	1994			Good
5		HF Transceiver	IC-M-700	50359	ICOM	1995			Good
1-2		VHF System							
1		VHF Transceiver	FTC-1540A	5M350102	Yaesu	1985			Good
2		VHF Transceiver	JHV-227YA	BM-16881	JRC	1994			Good
3		VHF Transceiver	IC-2000		ICOM	1998			Good
1-3		Receiver							
1		HF Receiver	NMR-1030K	21083	JRC	1969			
2		HF Receiver	FRG-7700	220345	Yaesu	1984			
3		HF Receiver	FRG-8800	5D50550	Yaesu	1985			
4		HF Receiver	FRG-8800	9D320063	Yaesu	1989			
2		Tower & Antenna System							
2-1		Tower & Mast							
		TX Station							
		Antenna Tower (x2)			INTI	1980			Good
2-2		Antenna System							
1		Dipole Antenna				1993			
2		Long Wire Antenna				1994			
3		Whip Antenna (VHF)			JRC	1995			Good
4		Whip Antenna (VHF)			GAZDEN	1998			Good
5		HF Antenna (x3)				1995			Good
2-3		Antenna Switch							
		Antenna Selector							
1		Automatic Antenna Tuner	AT-120		ICOM	1994			Good
2		Automatic Antenna Tuner	AT-130		ICOM	1995			Good

Tanjung Pinang

INVENTORY

Site Name: Tanjung Pinang

TGP-043- (2 / 2)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3		Power Supply Equipment							
3-1		UPS & AVR							
1		DC Power Supply	RS.40XII		Daiwa	1994			Good
2		DC Power Supply	RS.40XII		Daiwa	1996			Good
3		DC Power Supply 12/13.8V			VDO	1984			Good
4		DC Power Supply 12V			EGC	1989			Good
5		Accumulator	12V/200AH		Ottoho	1996			Good
6		Accumulator	12V/200AH		Ottoho	1996			
7		Accu Charger	BC.2415N		Lancer	1996			
8		AVR	TVS-10G		Tamiya	1996			
3-2		Engine Generator							
1		Generator	VMI.82804		Dypco	1981			
4		Measuring Equipment							
1		Multi Meter			Standard	1983			
2		Multi Meter			Sunwa	1985			
3		Multi Meter			Sunwa	1996			
4		Frequency Counter	FC.845		Soar	1985			
5		SWR Meter			Maldol	1985			
6		SWR Meter	MR.1000		Maldol	1996			
7		Tool Set			Hozan	1985			
5		Others							
1		Panel Box				1996			

STATUS OF TROUBLES

SITE NAME : TANJUNG PINANG

TGP-43-(1/1)

Item / Equipment	Automatic Antenna Tuner / AT-130			
Manufacturer	-			
Manufacturer in year	1995			
Defective panel / unit	-			
Details of Trouble Status	Cause doe to:	Urgency of Repair		Repairing to be:
	<input type="checkbox"/> Aging			<input checked="" type="checkbox"/> Immediacy
	<input checked="" type="checkbox"/> Lightning			<input type="checkbox"/> By next year budget
	<input type="checkbox"/> Corrosion			<input type="checkbox"/> By next project
	<input type="checkbox"/> Lack of Spares			<input type="checkbox"/> Unnecessary
	<input type="checkbox"/> Others			
<u>General Comment for Maintenance:</u>				

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Tanjung Pinang

TGP-043-(1/1)

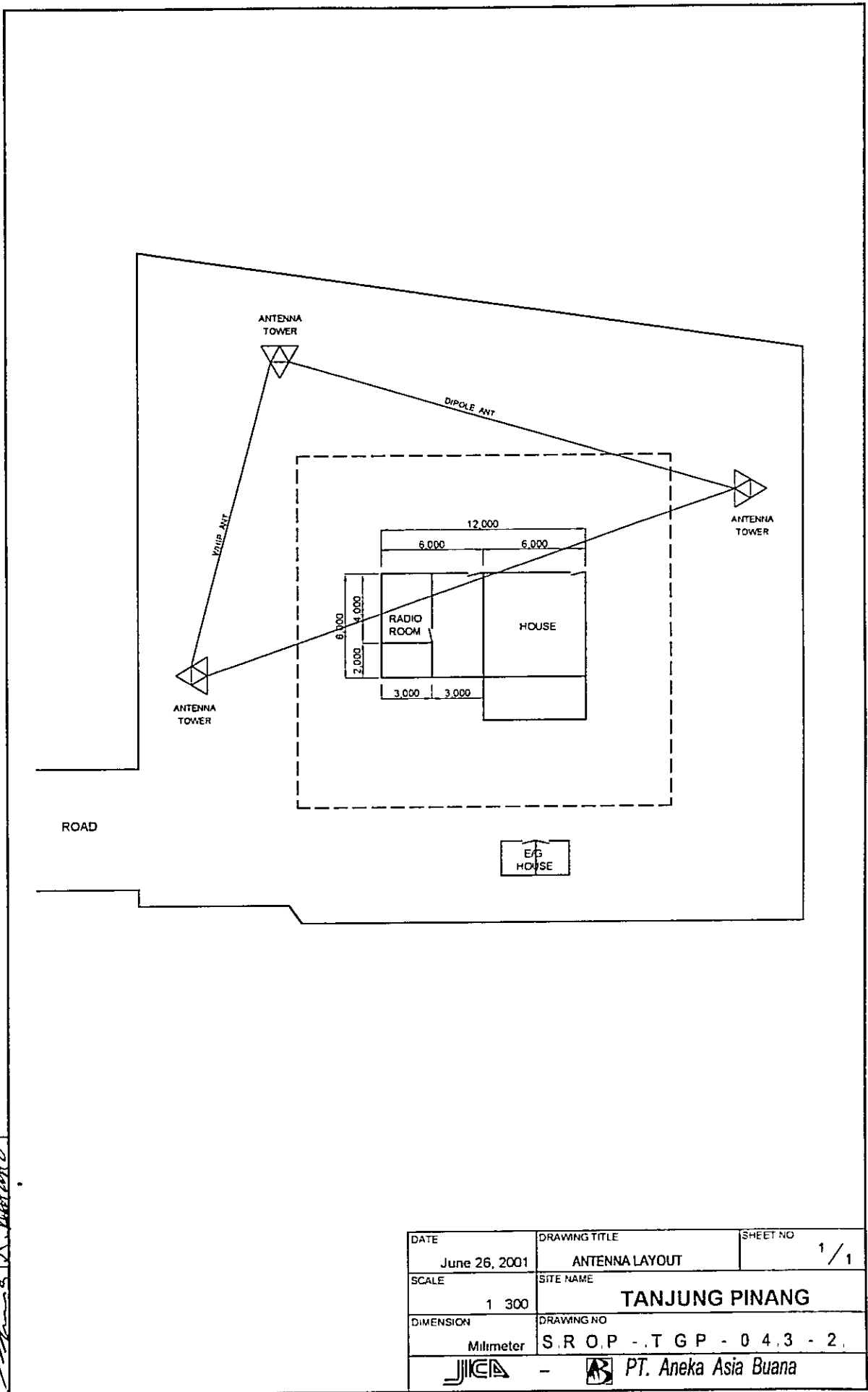
Call Sign : Mobile Service : PKJ.2
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC																								REMARK
				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mobile Service																												
1	2 182,0	J3E	150																									
2	6 215,0	J3E	150																									
VHF Service																												
3	Channel-16	G3E	25																									
Fix Service																												
4	5.316.0	J3E	150																									
5	6.926.0	J3E	150																									
6	4.055.0	J3E	150																									
7	9 110.0	J3E	150																									
8																												
9																												
10																												
11																												
12																												
13																												
14																												
15																												
16																												
17																												
18																												
19																												
20																												
21																												
22																												
23																												



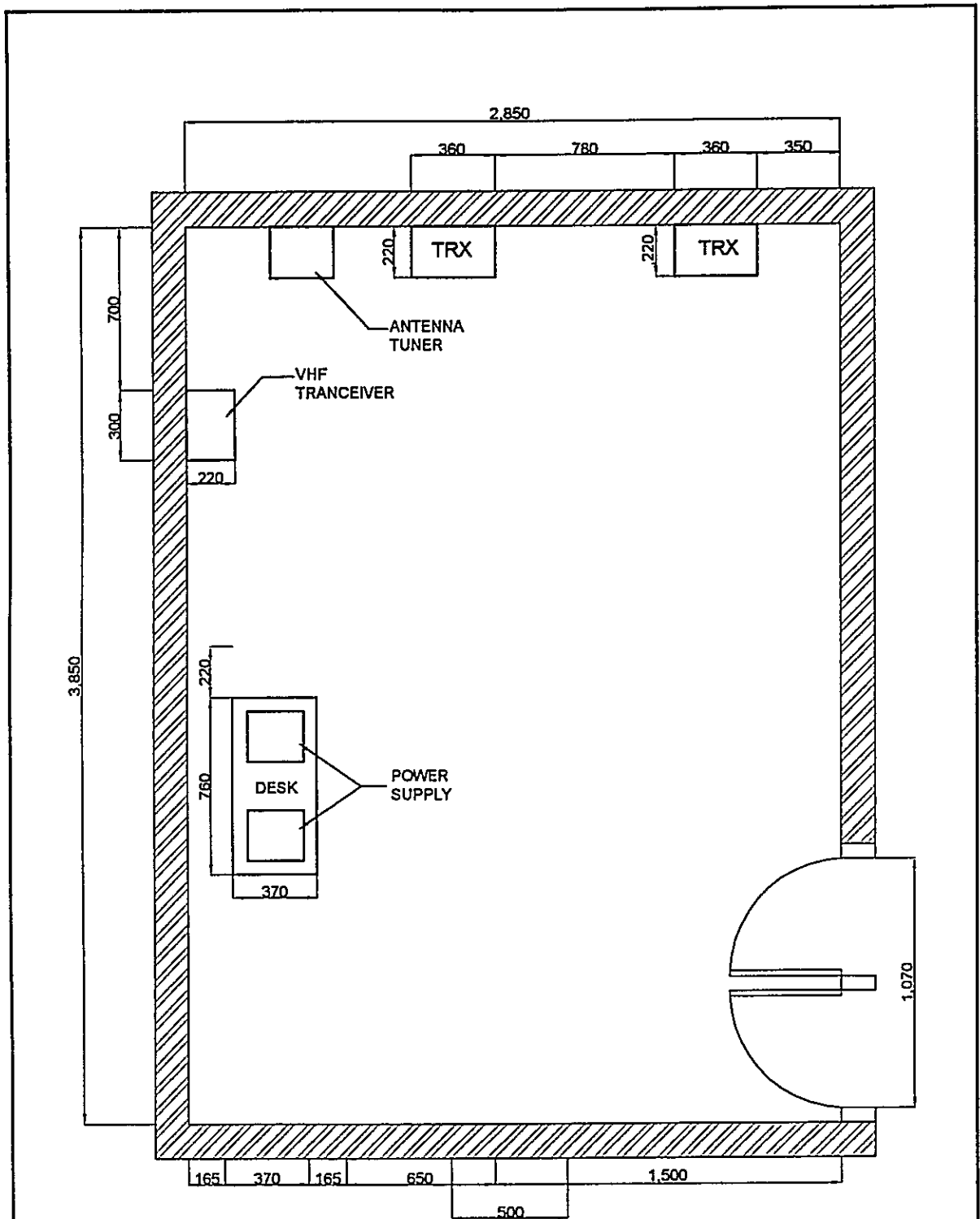
DRAWN BY AAB
 APPROVED BY JICA
 1/17/0

DATE	DRAWING TITLE	SHEET NO
July 03, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 250,000	TANJUNG PINANG	
DIMENSION	DRAWING NO	
Meter	S, R, O, P, -, T, G, P, -, 0, 4, 3, -, 1,	
JICA - PT. Aneka Asia Buana		



APPROVED BY JICA
[Signature]
 DRAWN BY AAB
[Signature]

DATE June 26, 2001	DRAWING TITLE ANTENNA LAYOUT	SHEET NO 1 / 1
SCALE 1 : 300	SITE NAME TANJUNG PINANG	
DIMENSION Millimeter	DRAWING NO S.R.O.P - T.G.P - 043 - 2	
- PT. Aneka Asia Buana		





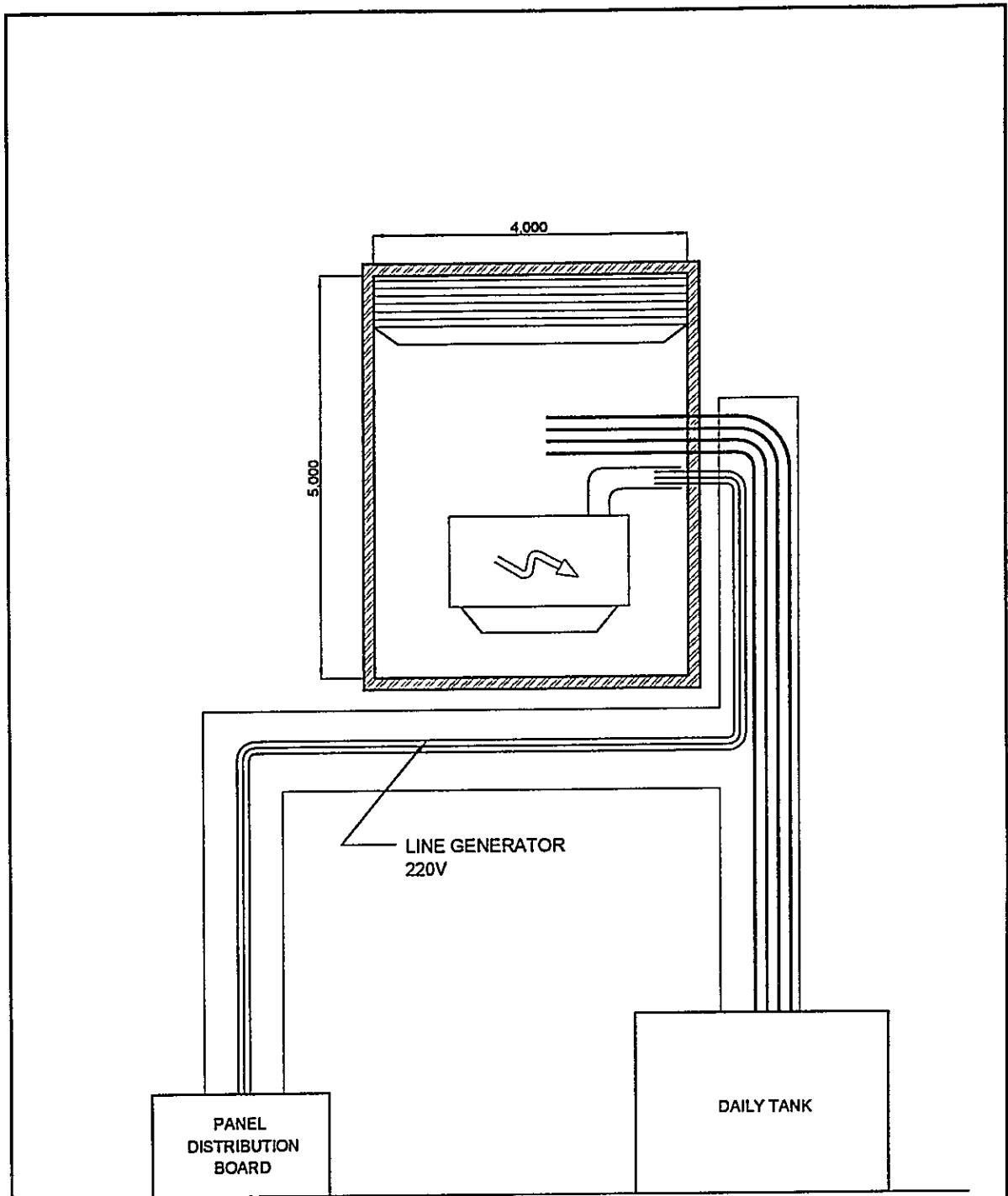
LEGEND

- AVR AUTOMATIC VOLTAGE REGULATOR
- HF HIGH FREQUENCY
- MF MEDIUM FREQUENCY
- PDB POWER DISTRIBUTION BOARD
- SUT STEP - UP TRANSFORMER
- TX TRANSMITTER (ING)
- TRX TRANSCIVER (ING)
- VHF VERY HIGH FREQUENCY



DRAWN BY AAB
 APPROVED BY JICA

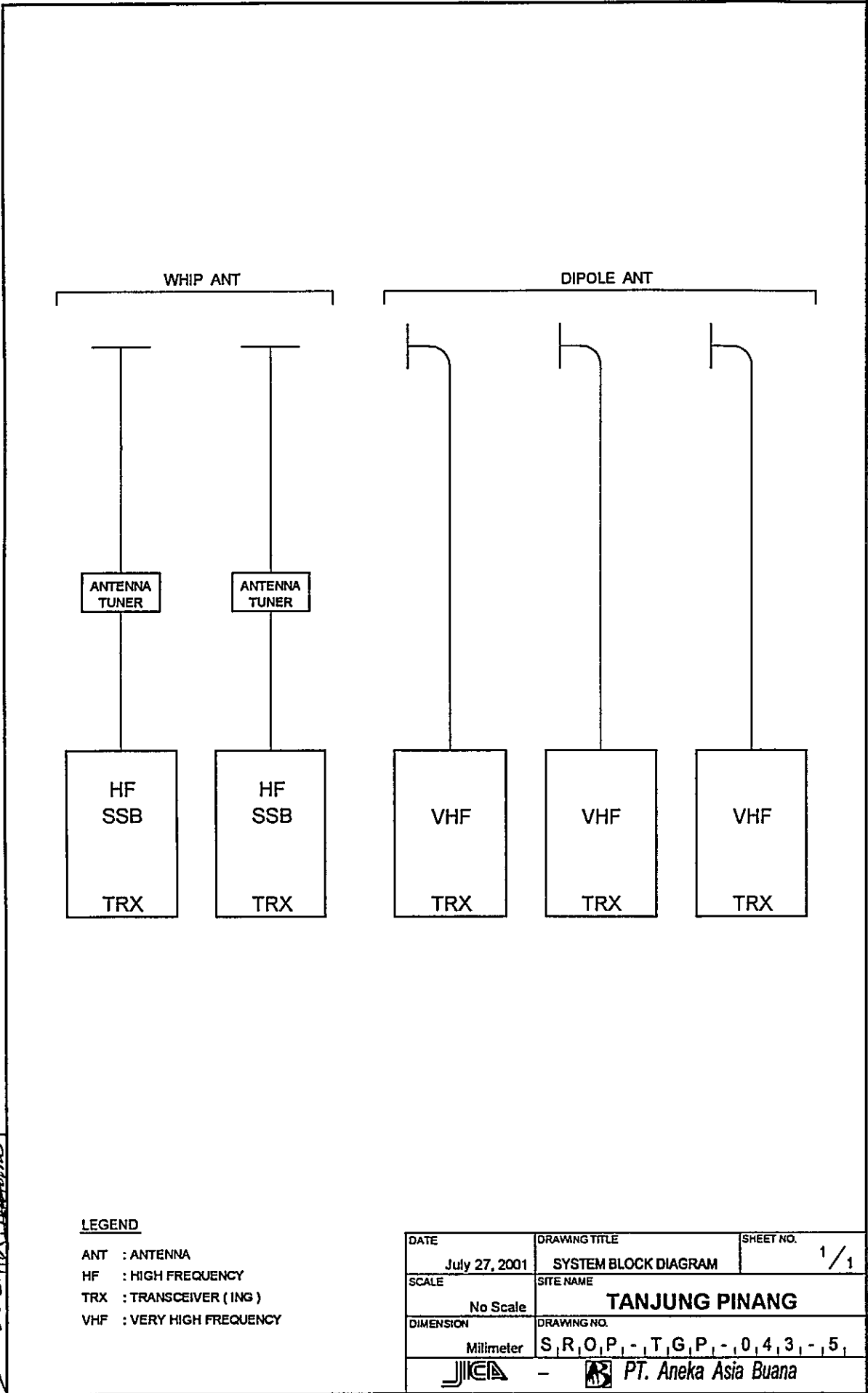


DATE June 25, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT	SHEET NO 1 / 1
SCALE 1 : 25	SITE NAME TANJUNG PINANG	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, -, T, G, P, -, 0, 4, 3, -, 3,	
		 PT. Aneka Asia Buana



DRAWN BY AAB.
 APPROVED BY JICA.

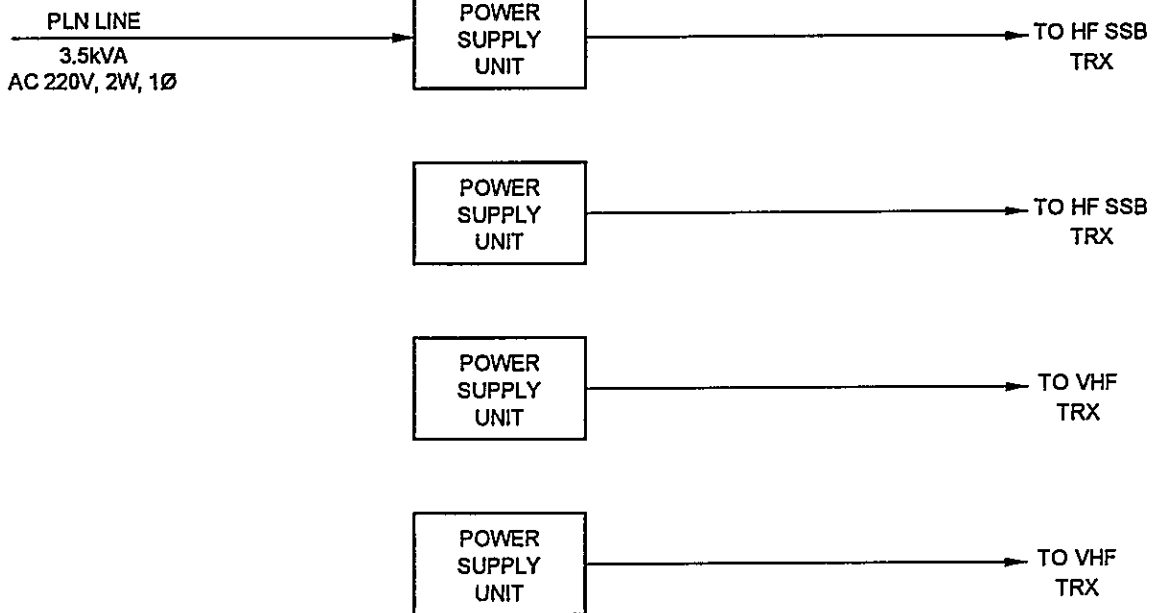

DATE	JUNE 25, 2001	DRAWING TITLE	E/G FLOOR LAYOUT	SHEET NO.	1/1
SCALE	1 : 75	SITE NAME	TANJUNG PINANG		
DIMENSION	Milimeter	DRAWING NO.	S, R, O, P, - T, G, P, - 0, 4, 3, - 4,		
		 PT. Aneka Asia Buana			



DRAWN BY AAB
 APPROVED BY JICA:

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

DATE	DRAWING TITLE	SHEET NO.
July 27, 2001	SYSTEM BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	TANJUNG PINANG	
DIMENSION	DRAWING NO.	
Millimeter	S, R, O, P, - T, G, P, - 0, 4, 3, - 5,	
- PT. Aneka Asia Buana		



LEGEND

- AC : ALTERNATING CURRENT
- E/G : ENGINE GENERATOR
- kVA : KILO VOLT AMPERE
- V : VOLT
- W : WIRE
- Ø : PHASE

APPROVED BY JICA
 DRAWN BY JICA

DATE July 27, 2001	DRAWING TITLE POWER BLOCK DIAGRAM	SHEET NO. 1/1
SCALE No Scale	SITE NAME TANJUNG PINANG	
DIMENSION Millimeter	DRAWING NO S, R, O, P, -, T, G, P, -, 0, 4, 3, -, 6,	
- PT. Aneka Asia Buana		

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

**4th-B Class Coast Station
Dabo Singkep
(Coast Station No. 44)**

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	DABO SINGKEP		
	CLASS	4th-B	NO.	44

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelabuhan, Dabo Singkep			104° 34' 00" E	00° 30' 10" S

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Batam [Taking time: 2:00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	
By Ship	to Tg. Pinang [Taking time: 1:00 hr.]	<input checked="" type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Motel	
By Ship	to DSP [Taking time: 3:00 hr.]	<input type="checkbox"/> Unpaved road	<input checked="" type="checkbox"/> Light		
			<input type="checkbox"/> 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	
<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input type="checkbox"/> Flood	Yes	No	<input checked="" type="checkbox"/> Antenna	
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input type="checkbox"/> Flood Tide	<input checked="" type="checkbox"/>		<input type="checkbox"/> Towers (Masts)	
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage	<input checked="" type="checkbox"/>		<input type="checkbox"/> Grounding system	
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence	<input checked="" type="checkbox"/>		<input type="checkbox"/> Lightning system	
<input type="checkbox"/> Valley	<input checked="" type="checkbox"/> Sandy			<input checked="" type="checkbox"/>		<input type="checkbox"/> Feeder Cable Way	
Altitude	2.00 M		Telephone Lines		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Land area	1,600 m ²		<input type="checkbox"/> Lines		<input type="checkbox"/>	<input checked="" type="checkbox"/>	City water
3.2 Building Conditions				3.3 Power Source			
Constructions		PLN Source		E/G		Existing Power Conditions	
Num. of story	One	Voltage	220 V	220 V	Good	Bad	
Structure	Concrete	Phase	1	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Power Supply System
Type of roof	Zinc	Wire	2	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Operations of E/G
Type of ceiling	Triplex	kVA	0.9	3	<input type="checkbox"/>	<input type="checkbox"/>	Operations of AVR
Type of wall	Brick	Quality of PLN source			Capacity of fuel for engine		
Wall finish	Mortar	Fluctuations	V ± %		Day tank	5,9 Liter	
Flooring	Tile	Availability of power per day	24 Hours		Main tank	k Liter	
Room Area (m²)		Power interruption /month		4 Times		E/G Stand-by System	
Operation room	9.00	Total interpt. hours /month		36 Hours		<input checked="" type="checkbox"/> Single System	
E / G room	4.00	Max. interpt. hours at once		12 Hours		<input type="checkbox"/> Dual System	
Remark							

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure						TX/RX		
Restoration flow	Repaired in District Navigation Tg. Pinang			Chief	1			
Examples of major failure	HF Transceiver, damaged			Operator (skilled)	1 0		0	
Sufficiency of spares				Technician (skilled)	0		0	
Records of damages		Environmental Conditions		Administrator				
<input type="checkbox"/> Heavy rainfall			Good Bad					
<input type="checkbox"/> Storm			<input checked="" type="checkbox"/> External noises	Total				
<input type="checkbox"/> Lightning			<input checked="" type="checkbox"/> Air pollution					
<input checked="" type="checkbox"/> Other calamity	Damaged by lightening							
Institutional and Human Statuses				Training Record				
1 Budget	<input type="checkbox"/> Sufficient	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Insufficient	Course	Class	Location	Period	Trainee
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
3 Measuring eqpt./tools	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
4 Number of Operator	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
5 Number of Technician	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
6 Capability of Operator	<input type="checkbox"/> Skilled	<input checked="" type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					
7 Capability of Technician	<input type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input checked="" type="checkbox"/> Not capable					

SUMMARY OF COAST STATION	SITE	DABO SINGKEP		
	CLASS	4th-B	NO.	44

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		4			1991	42			1996	41		
1997		6			1992	51			1997	48		
1998		5			1993	37			1998	50		
1999		8			1994	44			1999	42		
2000		8			1995	52			2000	53		

7. COMMENTS	
Suggestion	
Remarks	

INVENTORY

Site Name: Dabo Singkep

DSP-044- (1 / 1)

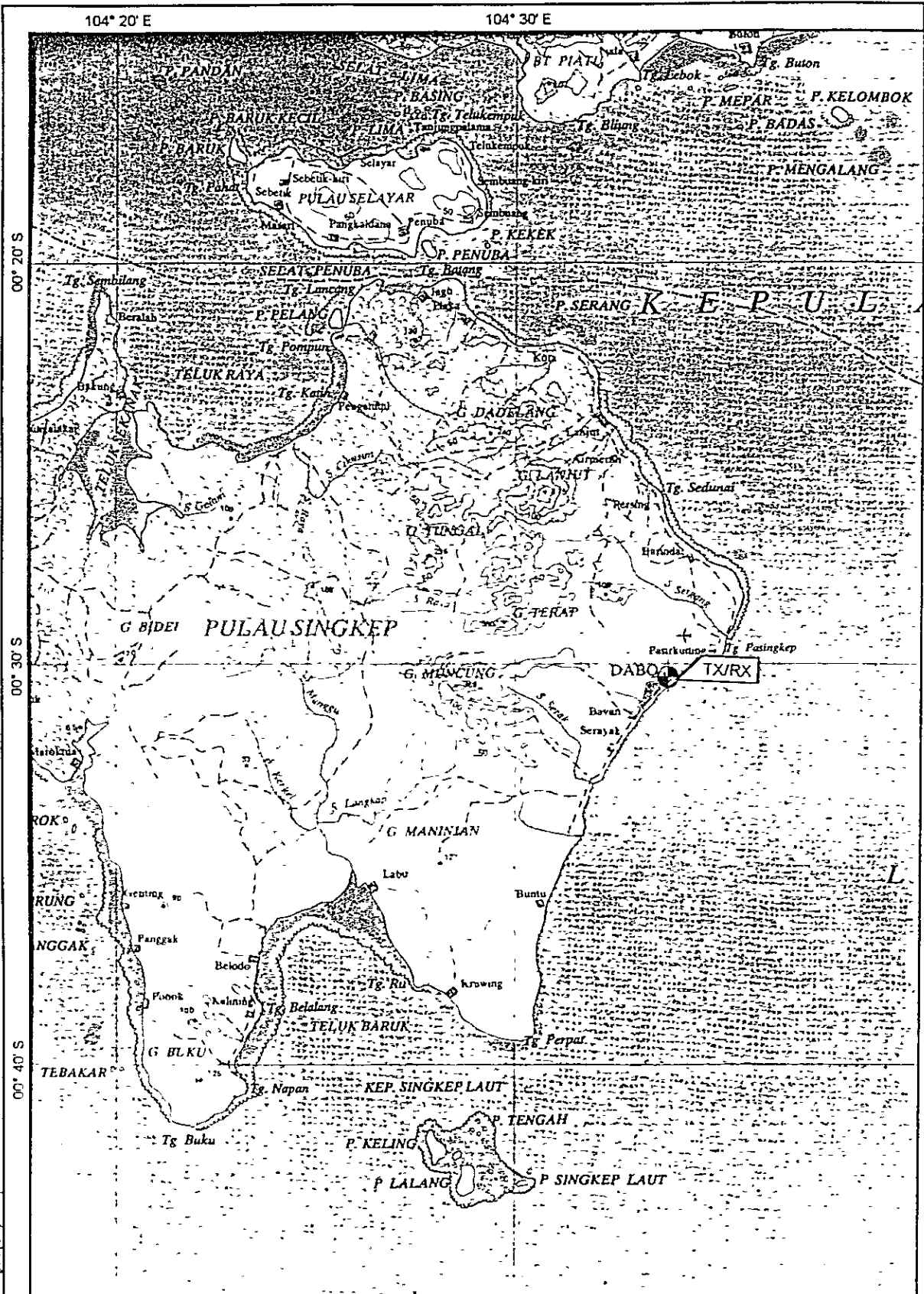
No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		MF/HF System	UTS-10S	10-S.10	UTS	1984			Damaged
2		HF Transceiver	IC-M700		ICOM	1996			Good
1-1		SSB Transceiver							
1		VHF System	IC-2100		ICOM	1999			Damaged
		VHF Transceiver							
2		Tower & Antenna System							
2-1		Tower & Mast							
1		Antenna pole							Good
2-2		Antenna System							
1		Dipole Antenna							
2		VHF Antenna			GAZDEN	1999			Good
2-3		Antenna Matching Unit							
1		Antenna Tuner	AT-120		ICOM	1996			Good
3		Power Supply Equipment							
3-1		UPS & AVR System							
1		Power Supply	VDO	PS-830		1984			Good
2		Charger	VDO			1999			Good
3		Battery 12V/200AH	NS-200			1999			Good
3-2		Engine Generator							
1		Engine Generator	TS-60		Yanmar	1984			Good
2		Engine Generator	800		Honda	1986			No Good
4		Measuring Equipment							
1		Multi Tester			Sanwa	1995			
5		Others							
1		Tool Set			Hozan	1995			

STATUS OF TROUBLES



SITE NAME : DABO SINGKEP

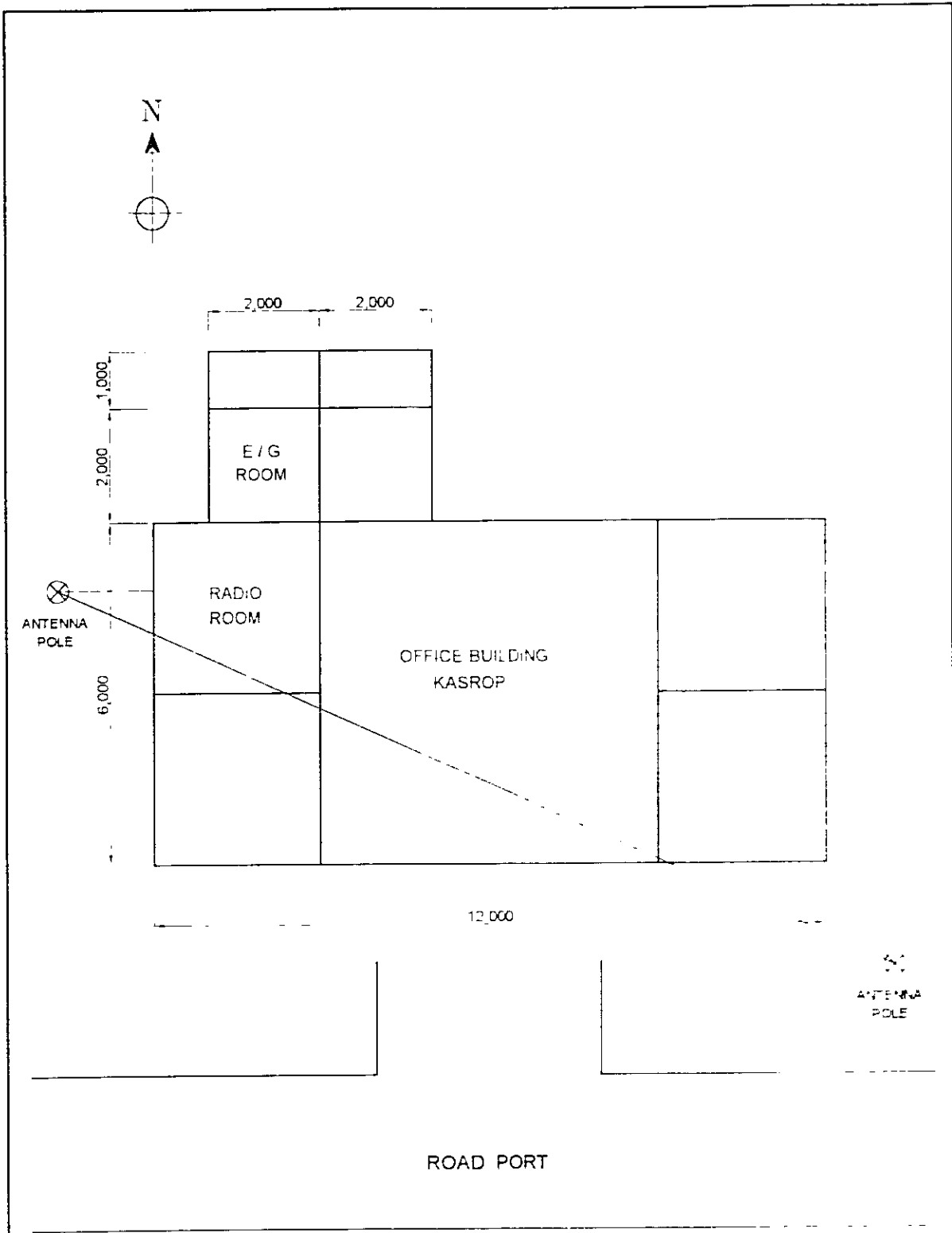
DSP-44-(1/1)

Item / Equipment	- / -
Manufacturer	-
Manufacturer in year	-
Defective panel / unit	-
Details of Trouble Status	Cause due to:
	<input type="checkbox"/> Aging
	<input type="checkbox"/> Lightning
	<input type="checkbox"/> Corrosion
	<input type="checkbox"/> Lack of Spares
	<input type="checkbox"/> Others
Urgency of Repair	
Repairing to be:	
<input type="checkbox"/> Immediacy	
<input type="checkbox"/> By next year budget	
<input type="checkbox"/> By next project	
<input type="checkbox"/> Unnecessary	
<u>General Comment for Maintenance:</u>	
<p>Dabo Singkep Coast Station only completed by 1 unit HF Transceiver and 1 Unit VHF Transceiver, so if there is trouble on the above equipment, it will can not be operationed.</p> <p>Connecting to the above condition, we request for additional spare equipment, for each 1 unit</p>	



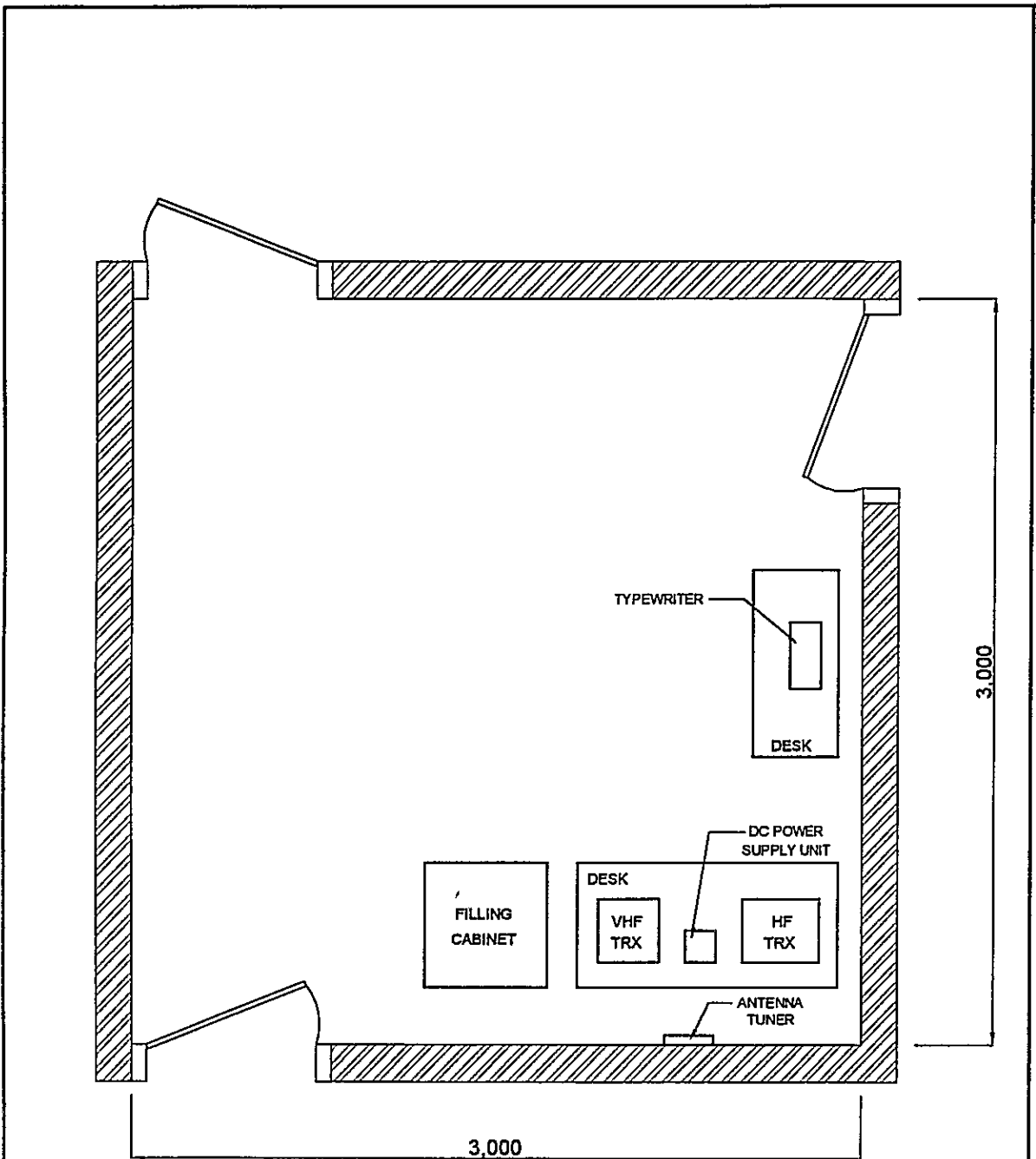
DRAWN BY AAB
 APPROVED BY JICA


DATE	DRAWING TITLE	SHEET NO
July 03 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 250 000	DABO SINGKEP	
DIMENSION	DRAWING NO	
Meter	S.R.O.P - D.S.P - 044 - 1	
 -  PT. Aneka Asia Buana		



DRAWN BY: AAD
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]

DATE	June 26, 2001	PROJECT NAME	ANTENNA LAYOUT	NO.	1
SCALE	1:100	LOCATION	DABO SINGKEP		
UNITS	Millimeter	DRAWING NO.	S R O P - D S P 0 4 4 2		
		PT. Aneka Asia Buana			

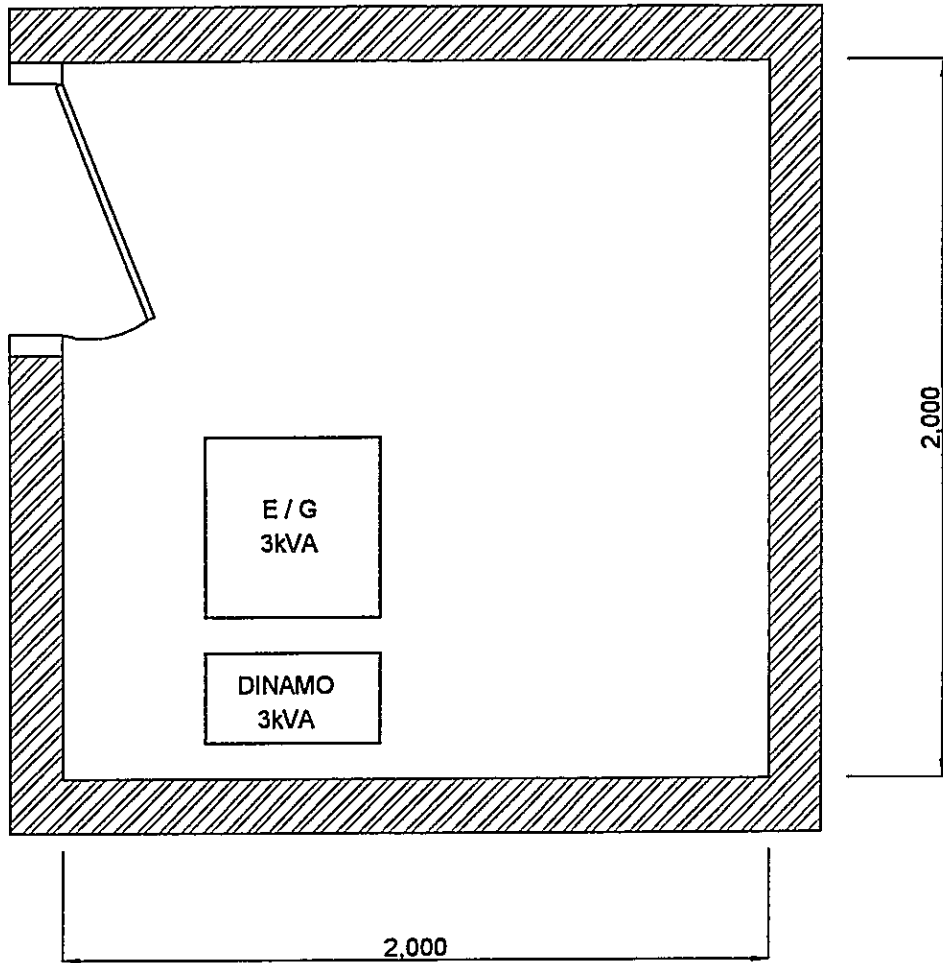


LEGEND

- HF . HIGH FREQUENCY
- TRX TRANSCIVER
- VHF VERY HIGH FREQUENCY

DRAWN BY AAB
 APPROVED BY JICA
[Signature]



DATE June 26, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT	SHEET NO 1 / 1
SCALE 1 : 25	SITE NAME DABO SINGKEP	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, - D, S, P, - 0, 4, 4, - 3, 1	
- PT. Aneka Asia Buana		



LEGEND

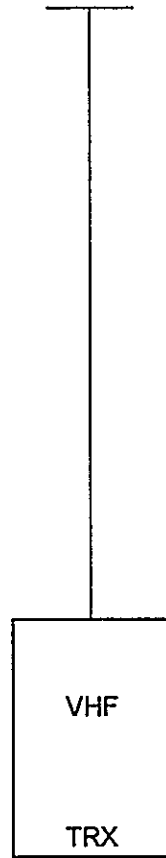
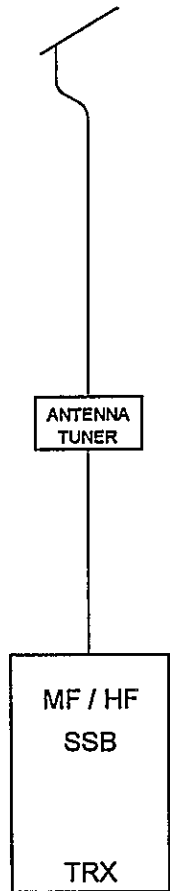
E/G : ENGINE / GENERATOR
 KVA : KILO VOLT AMPERE



APPROVED BY JICA
 DRAWN BY AAB

DATE June 26, 2001	DRAWING TITLE E/G FLOOR LAYOUT	SHEET NO 1 / 1
SCALE 1 : 20	SITE NAME DABO SINGKEP	
DIMENSION Millimeter	DRAWING NO. S, R, O, P, -, D, S, P, -, 0, 4, 4, -, 4,	
 -  PT. Aneka Asia Buana		

IL ANT



WHIP ANT

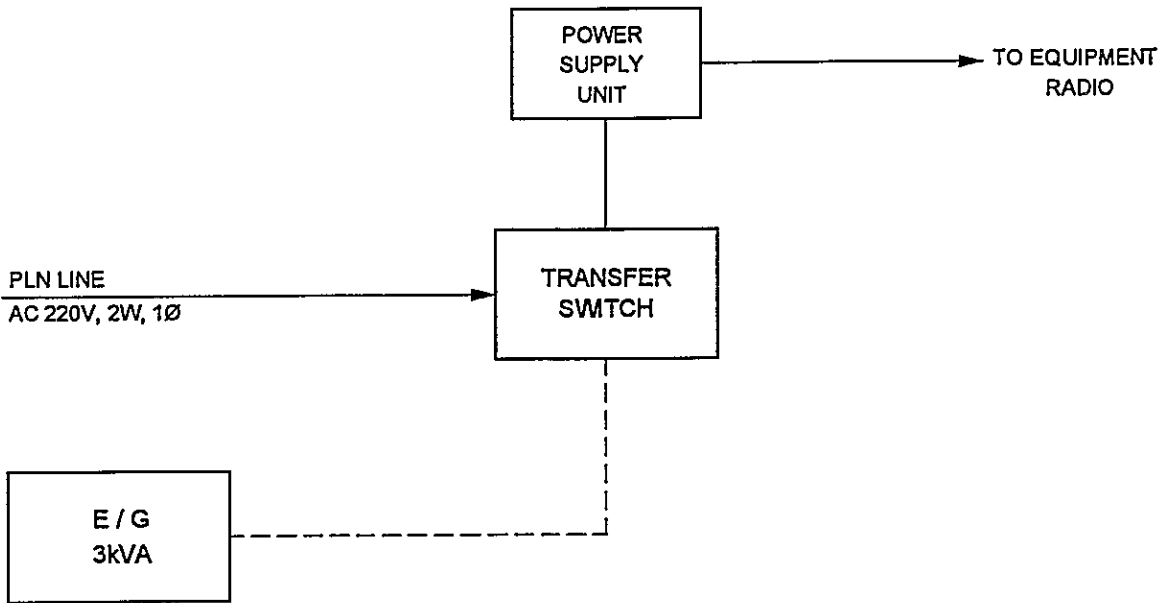



APPROVED BY JICA: 
 DRAWN BY AAB: 

LEGEND

- HF HIGH FREQUENCY
- IL INVERTED L
- MF MEDIUM FREQUENCY
- VHF VERY HIGH FREQUENCY



DATE June 26, 2001	DRAWING TITLE SYSTEM BLOCK DIAGRAM	SHEET NO 1 / 1
SCALE No Scale	SITE NAME DABO SINGKEP	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, - , D, S, P, - , 0, 4, 4, - , 5, 1	
 -  PT. Aneka Asia Buana		



DRAWN BY AAB
 APPROVED BY JICA


LEGEND

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

DATE June 26, 2001	DRAWING TITLE POWER BLOCK DIAGRAM	SHEET NO 1 / 1
SCALE No Scale	SITE NAME DABO SINGKEP	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, D, S, P, -, 0, 4, 4, -, 6,	
 -  PT. Aneka Asia Buana		

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

**4th-B Class Coast Station
Natuna
(Coast Station No. 45)**

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	NATUNA		
	CLASS	4th-B	NO.	45

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelabuhan, Natuna			108° 07' 45" E	03° 40' 10" N

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Batam [Taking time: 2.00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	
By Ship	to Natuna [Taking time: 2.6 hr.]	<input type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Motel	
		<input checked="" type="checkbox"/> Unpaved road	<input checked="" type="checkbox"/> Light		
			<input type="checkbox"/> 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
<input type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input type="checkbox"/> Flood	Yes	No
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input type="checkbox"/> Flood Tide	<input checked="" type="checkbox"/>	<input type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage	<input type="checkbox"/>	<input checked="" type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence	<input checked="" type="checkbox"/>	<input type="checkbox"/> Grounding system
<input checked="" type="checkbox"/> Valley	<input checked="" type="checkbox"/> Sandy			<input checked="" type="checkbox"/>	<input type="checkbox"/> Lightning system
Altitude	5.00 M		Telephone Lines	<input type="checkbox"/>	<input checked="" type="checkbox"/> Feeder Cable Way
Land area	5,000 m ²		<input type="checkbox"/> Lines	<input type="checkbox"/>	<input checked="" type="checkbox"/> City water

3.2 Building Conditions			3.3 Power Source		
Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	One	Voltage	V	220 V	Good Bad
Structure	Concrete	Phase		1	<input type="checkbox"/> <input type="checkbox"/> Power Supply System
Type of roof	Asbestos	Wire		2	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of E/G
Type of ceiling	Triplex	kVA		3	<input type="checkbox"/> <input type="checkbox"/> Operations of AVR
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	V ± %		Day tank
Flooring	Tile	Availability of power per day	Hours	Main tank	12 Liter
Room Area (m²)		Power interruption /month		E/G Stand-by System	
Operation room	9.00	Total interpt. hours /month		Hours	<input checked="" type="checkbox"/> Single System
E / G room	20.00	Max. interpt. hours at once		Hours	<input type="checkbox"/> Dual System
Remark					

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure								
Restoration flow	Repaired in District Navigation Tg. Pinang			Chief	TX/RX			
Examples of major failure	HF Transceiver, damaged			Operator (skilled)	1	()	()	()
Sufficiency of spares				Technician (skilled)	()	()	()	()
Records of damages		Environmental Conditions		Administrator				
<input type="checkbox"/> Heavy rainfall			Good	Bad				
<input type="checkbox"/> Storm			<input checked="" type="checkbox"/>	<input type="checkbox"/>	External noises		Total	
<input type="checkbox"/> Lightning			<input checked="" type="checkbox"/>	<input type="checkbox"/>	Air pollution		2	
<input checked="" type="checkbox"/> Other calamity	Damaged by lightening							
Institutional and Human Statuses				Training Record				
1 Budget	<input type="checkbox"/> Sufficient	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Insufficient	Course	Class	Location	Period	Trainee
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
3 Measuring eqpt./tools	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
4 Number of Operator	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
5 Number of Technician	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
6 Capability of Operator	<input type="checkbox"/> Skilled	<input checked="" type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					
7 Capability of Technician	<input type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input checked="" type="checkbox"/> Not capable					

SUMMARY OF COAST STATION	SITE	NATUNA		
	CLASS	4th-B	NO.	45

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	48		
1997					1992				1997	62		
1998		4			1993				1998	74		
1999		2			1994				1999	69		
2000		4			1995				2000	78		

7. COMMENTS	
Suggestion	
Remarks	

INVENTORY

Site Name: Natuna

NTN-045- (1 / 1)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1	1	MIF/HF Radio Console SSB Transceiver	IC-M700		ICOM	1996			Good
1-2	1	VHF System VHF Transceiver	IC-M50		ICOM	1996			Good
2		Tower & Antenna System							
2-1	1	Antenna System VHF Antenna				1996			Good
2-2	1	Antenna Selector Antenna Tuner	AT-120			1996			Good
3		Power Supply Equipment							
3-1	1	UPS & AVR				1996			Good
	2	Battery Charger (x2) Battery (x2)	NS 12V/200AH BC 2415N		Lancer	1996			Good
3-1	1	Engine Generator Engine Generator	TS-50		Yanmar	1996			Good

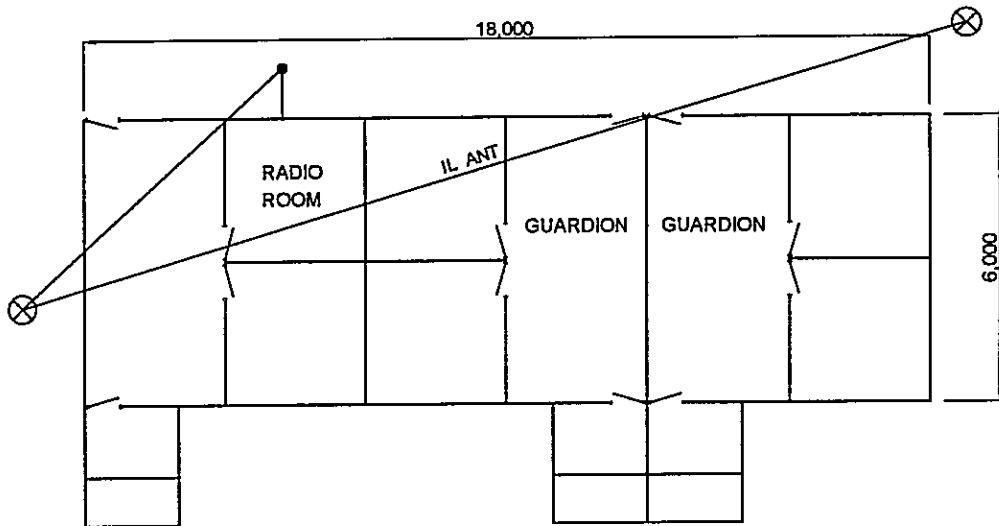
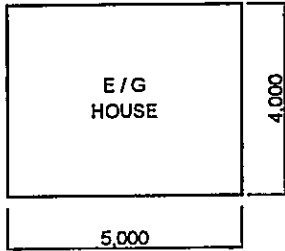
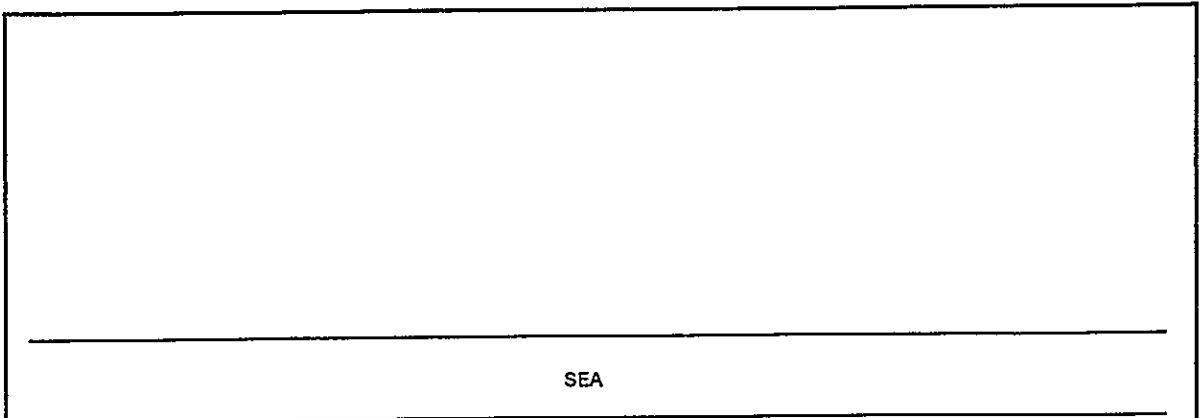
Tanjung Pinang

STATUS OF TROUBLES

SITE NAME : NATUNA

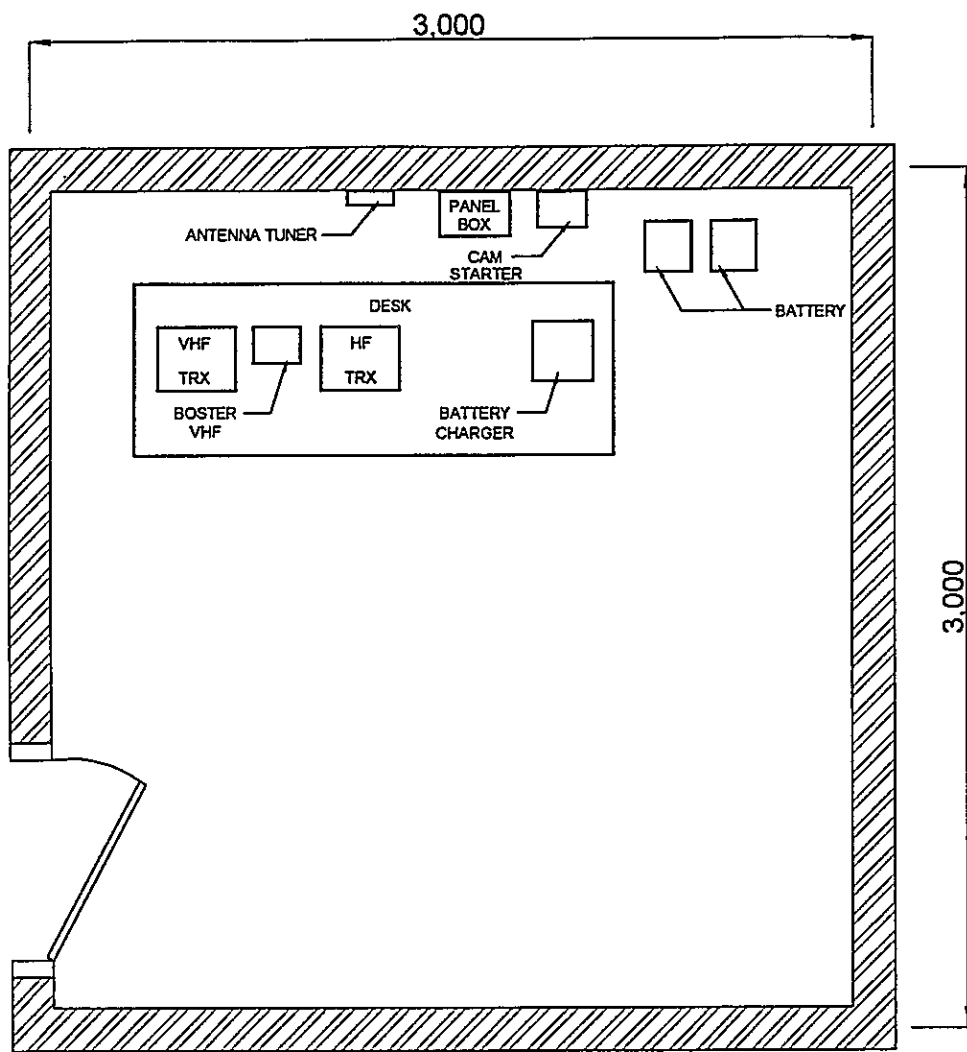
NTN-45-(1/1)

Item / Equipment	- / -		
Manufacturer	-		
Manufacturer in year	-		
Defective panel / unit	-		
Details of Trouble Status	Cause due to:	Urgency of Repair	Repairing to be:
	<input type="checkbox"/> Aging		<input type="checkbox"/> Immediacy
	<input type="checkbox"/> Lightning		<input type="checkbox"/> By next year budget
	<input type="checkbox"/> Corrosion		<input type="checkbox"/> By next project
	<input type="checkbox"/> Lack of Spares		<input type="checkbox"/> Unnecessary
	<input type="checkbox"/> Others		
<u>General Comment for Maintenance:</u>			
<p>Natuna Coast Station only completed by 1 Unit Transceiver HF and 1 Unit VHF Transceiver, so if there is trouble with the above equipment, it will can not be operationed.</p> <p>Connecting to the above condition, we request for spare equipment of Transceiver HF (1 Unit) and Transceiver VHF (1 Unit)</p>			



DRAWN BY AAB: *[Signature]*
 APPROVED BY JICA: *[Signature]*

DATE June 26, 2001	DRAWING TITLE ANTENNA LAYOUT	SHEET NO 1/1
SCALE 1 : 150	SITE NAME NATUNA	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, N, T, N, -, 0, 4, 5, -, 2, 1	
- PT. Aneka Asia Buana		

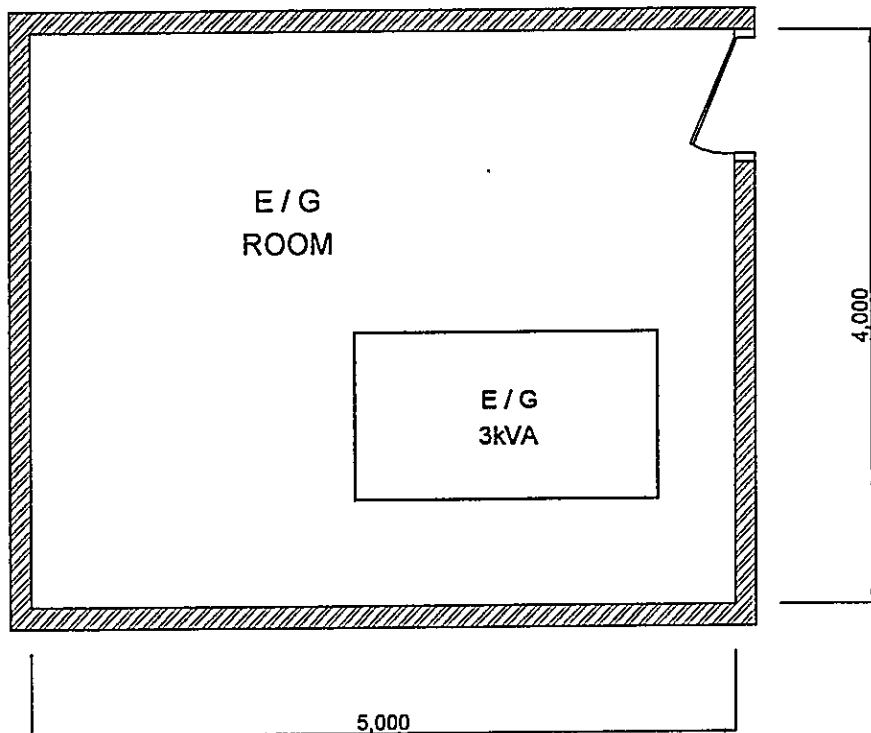


LEGEND

- HF : HIGH FREQUENCY
- TRX : TRANSCIEVER
- VHF : VERY HIGH FREQUENCY

APPROVED BY JICA
 DRAWN BY AAB

DATE	DRAWING TITLE	SHEET NO.
August 16, 2001	EQUIPMENT FLOOR LAYOUT	1/1
SCALE	SITE NAME	
1:25	NATUNA	
DIMENSION	DRAWING NO.	
Milimeter	S,R,O,P,-,N,T,N,-,0,4,5,-,3,	
- PT. Aneka Asia Buana		



LEGEND

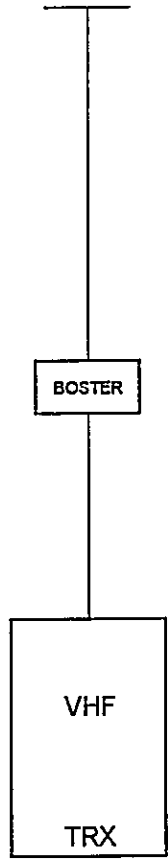
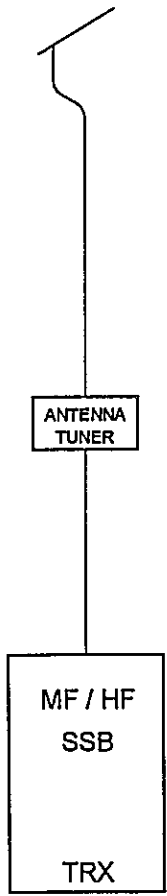
E/G : ENGINE GENERATOR
 KVA : KILO VOLT AMPERE

DRAWN BY: AAB
 APPROVED BY: JICA: *[Signature]*

DATE June 26, 2001	DRAWING TITLE E/G FLOOR LAYOUT	SHEET NO 1/1
SCALE 1 : 50	SITE NAME NATUNA	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, N, T, N, -, 0, 4, 5, -, 4,	
- PT. Aneka Asia Buana		

IL ANT

WHIP ANT

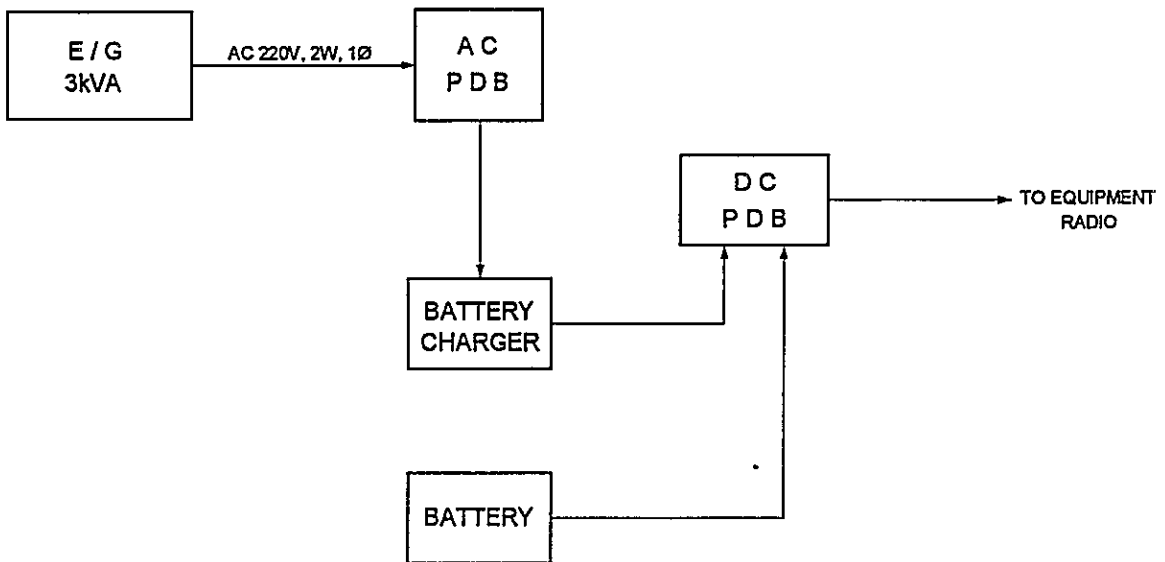


DRAWN BY AAB
 APPROVED BY JICA

LEGEND

- HF HIGH FREQUENCY
- IL INVERTED L
- MF MEDIUM FREQUENCY
- VHF VERY HIGH FREQUENCY



DATE	DRAWING TITLE	SHEET NO.
June 26, 2001	SYSTEM BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	NATUNA	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, - N, T, N, - 0, 4, 5, - 5	
- PT. Aneka Asia Buana		



LEGEND

- AVR : AUTOMATIC VOLTAGE REGULATOR
- E/G : ENGINE / GENERATOR
- KVA : KILO VOLT AMPERE
- PDB : POWER DISTRIBUTION BOARD
- V : VOLT

DRAWN BY AAB: 
 APPROVED BY JICA: 

DATE	DRAWING TITLE	SHEET NO.
June 26, 2001	POWER BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	NATUNA	
DIMENSION	DRAWING NO	
Milimeter	S.R.O.P. - N.T.N. - 0,4,5, - 6,	
 -  PT. Aneka Asia Buana		

**THE STUDY FOR
MARITIME TRAFFIC SAFETY SYSTEM DEVELOPMENT PLAN
IN THE REPUBLIC OF INDONESIA**

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

**2ND CLASS DISTRICT NAVIGATION AREA (6)
TELUK BAYUR**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

2nd Class District Navigation Area (6) Teluk Bayur

Table of Content

DISNAV	6	Teluk Bayur	2nd Class
SROP	46	Teluk Bayur	2nd Class
	47	Air Bangis	4th-B Class
	48	Sipora	4th-B Class
	49	Siberut	4th-B Class
	50	Sikabalan	4th-B Class
	51	Sikakap	4th-B Class

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

2nd Class District Navigation Office (Area-6) Teluk Bayur

Table of Content

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

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF DISNAV	SITE	TELUK BAYUR		
	CLASS	2nd	NO.	6

1. LOCATION				
Address	Tel.	Fax	Longitude	Latitude
Jl. Banjar Masin NO. 2, Teluk Bayur 25217	0751-62884	0751-62884	° ' "	° ' "

2. GENERAL CONDITIONS				
Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Padang [Taking time: 02:00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	
By car to T. Bayur [Taking time: 01:00 hr.]	<input checked="" type="checkbox"/> Paved	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Motel	
	<input type="checkbox"/> Unpaved road	<input type="checkbox"/> Light		
		<input type="checkbox"/> None		

3. CONDITIONS OF DISNAV OFFICE	Refer to attached drawing
---------------------------------------	---------------------------

3.1 Site Conditions			
Topography	Nature of Soil	Past disaster of site	Confirmation of existing system
<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	Yes No
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input type="checkbox"/> <input checked="" type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> <input checked="" type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay	<input type="checkbox"/> Ground Subsidence	<input type="checkbox"/> <input checked="" type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input type="checkbox"/> Sandy		<input type="checkbox"/> <input checked="" type="checkbox"/> Lightning system
Altitude	m	Telephone Lines	<input type="checkbox"/> <input checked="" type="checkbox"/> Feeder Cable Way
Land area	m ²	<input checked="" type="checkbox"/> 1 Lines	<input type="checkbox"/> <input checked="" type="checkbox"/> City water

3.2 Building Conditions		3.3 Power Source			
Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	Voltage	V	V	Good Bad	
Structure	Phase			<input type="checkbox"/> <input type="checkbox"/> Power Supply System	
Type of roof	Wire			<input type="checkbox"/> <input type="checkbox"/> Operations of E/G	
Type of ceiling	kVA			<input type="checkbox"/> <input type="checkbox"/> Operations of AVR	
Type of wall	Quality of PLN source		Capacity of fuel for engine		
Wall finish	Fluctuations	V ± %		Day tank	Liter
Flooring	Availability of power per day		Hours	Main tank	k Liter
Room Area (m ²)	Power interruption /month		Times	E/G Stand-by System	
Operation room	Total interpt. hours /month		Hours	<input type="checkbox"/> Single System	
E / G room	Max. interpt. hours at once		Hours	<input type="checkbox"/> Dual System	
Remark					

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure								
Restoration flow				Chief				
Examples of major failure				Operator (skilled) ()				
Sufficiency of spares				Technician (skilled) ()				
Records of damages		Environmental Conditions		Administrator				
<input type="checkbox"/> Heavy rainfall		Good	Bad	Total				
<input type="checkbox"/> Storm		<input checked="" type="checkbox"/>	<input type="checkbox"/> External noises					
<input type="checkbox"/> Lightning		<input checked="" type="checkbox"/>	<input type="checkbox"/> Air pollution					
<input type="checkbox"/> Other calamity								
Institutional and Human Statuses				Training Record				
1 Budget	<input type="checkbox"/> Sufficient	<input type="checkbox"/> Reasonable	<input type="checkbox"/> Insufficient	Course	Class	Location	Period	Trainee
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough					
3 Measuring eqpt./tools	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough					
4 Number of Operator	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough					
5 Number of Technician	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough					
6 Capability of Operator	<input type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					
7 Capability of Technician	<input type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					

SUMMARY OF DISNAV	SITE	TELUK BAYUR		
	CLASS	2nd	NO.	6

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	

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

2nd Class Coast Station Teluk Bayur (Coast Station No. 46)

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	TELUK BAYUR		
	CLASS	(2nd)	NO.	46

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Raya Padang Painan KM 13	0751-751137, 61377		100° 21' 55" E	01° 00' 10" S

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Padang [Taking time: 2.00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	800,000
By Car	to T. Bayur [Taking time: 1.00 hr.]	<input checked="" type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input type="checkbox"/> Motel	
		<input type="checkbox"/> Unpaved road	<input checked="" type="checkbox"/> Light		
			<input type="checkbox"/> None		

3. CONDITIONS OF STATION	Refer to attached drawing
--------------------------	---------------------------

3.1 Site Conditions			
Topography	Nature of Soil		Past disaster of site
<input type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input checked="" type="checkbox"/> Flood
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input type="checkbox"/> Flood Tide
<input checked="" type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage
<input type="checkbox"/> Basin	<input checked="" type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence
<input type="checkbox"/> Valley	<input type="checkbox"/> Sandy		
Altitude	170.00 M		Telephone Lines
Land area	3,314 m ²		<input checked="" type="checkbox"/> 2 Lines

3.2 Building Conditions		3.3 Power Source			
Constructions		PLN Source	E/G	Existing Power Conditions	
Num of story	One	Voltage	220 V	220 V	Good Bad
Structure	Concrete	Phase	3	1	<input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System
Type of roof	Concrete	Wire	4	2	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of E/G
Type of ceiling	Concrete	kVA	16.5	7.5	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of AVR
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	V ± %		Day tank
Flooring	Tile	Availability of power per day	24 Hours	Main tank	20 Liter
Room Area (m ²)		Power interruption /month	2 Times	E/G Stand-by System	
Operation room	96.00	Total interpt. hours /month	10 Hours	<input type="checkbox"/> Single System	
E / G room	36.00	Max interpt. hours at once	6 Hours	<input checked="" type="checkbox"/> Dual System	
Remark	New building has been constructed on 1998, and plan for transmitting station				

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS					
Actions taken in equipment failure									
Restoration flow				Chief		1			
Examples of major failure				Operator (skilled)		20 (16)			()
Sufficiency of spares				Technician (skilled)		9 (2)			()
Records of damages		Environmental Conditions		Administrator		2			
<input type="checkbox"/> Heavy rainfall		Good	Bad						
<input type="checkbox"/> Storm		<input checked="" type="checkbox"/>	<input type="checkbox"/> External noises	Total		32			
<input type="checkbox"/> Lightning		<input checked="" type="checkbox"/>	<input type="checkbox"/> Air pollution						
<input type="checkbox"/> Other calamity									
Institutional and Human Statuses				Training Record					
1 Budget	<input type="checkbox"/> Sufficient	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Insufficient	Course	Class	Location	Period	Trainee	
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough						
3 Measuring eqpt /tools	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough						
4 Number of Operator	<input type="checkbox"/> Enough	<input checked="" type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough						
5 Number of Technician	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough						
6 Capability of Operator	<input checked="" type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable						
7 Capability of Technician	<input checked="" type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable						

SUMMARY OF COAST STATION	SITE	TELUK BAYUR		
	CLASS	(2nd)	NO.	46

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	Request for telephone call facility.
Remarks	

INVENTORY

Site Name: Teluk Bayur

TLB-046- (1 / 2)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		MF/HF System							
1		Transmitter (A1A)	MC-2908/S03	352214472571	Phillips	1985			Good
2		Transmitter (A1A)	MC-2908/S02	352214472581	Phillips	1962			Damaged
3		HF SSB Transceiver	IC-M700	01269	Icom	1989			Damaged
4		HF SSB Transceiver	NS-11	5152503	Furuno	1979			Good
5		HF SSB Transceiver	FT-80C		Yaisu	1977			Good
6		HF SSB Transceiver	IC-M710		ICOM				Good
1-2		Operator Console/Desk/Rack							
1		Radio Console (A1A & J3E)	JSS-270	-	JRC	1982			Damaged
1-3		VHF System							
1		VHF Transceiver	FM-400	-	Furuno	1989			Good
2		VHF Transceiver	IC-M59	-	ICOM	1989			Good
1-4		Receiver							
1		Receiver	NRD-92	-	JRC	1985			Good
2		Receiver	R-7000	-	Philip	1970			Damaged
2		Tower & Antenna System							
2-1		Tower & Mast							
1		Steel Frame	-	-	-	-			
2		Pipe Tower (Pyramid)	-	-	JRC	1985			
3		Power Supply Equipment							
3-1		UPS & AVR System							
1		AVR	3 KGX	-	M'naga	1985			
2		30A Power Supply	PS 8930	-	Vedio	1989			
3		30A Power Supply	-	-	AEC	1996			

Teluk Bayur

INVENTORY

Site Name: Teluk Bayur

TLB-046- (2 / 2)

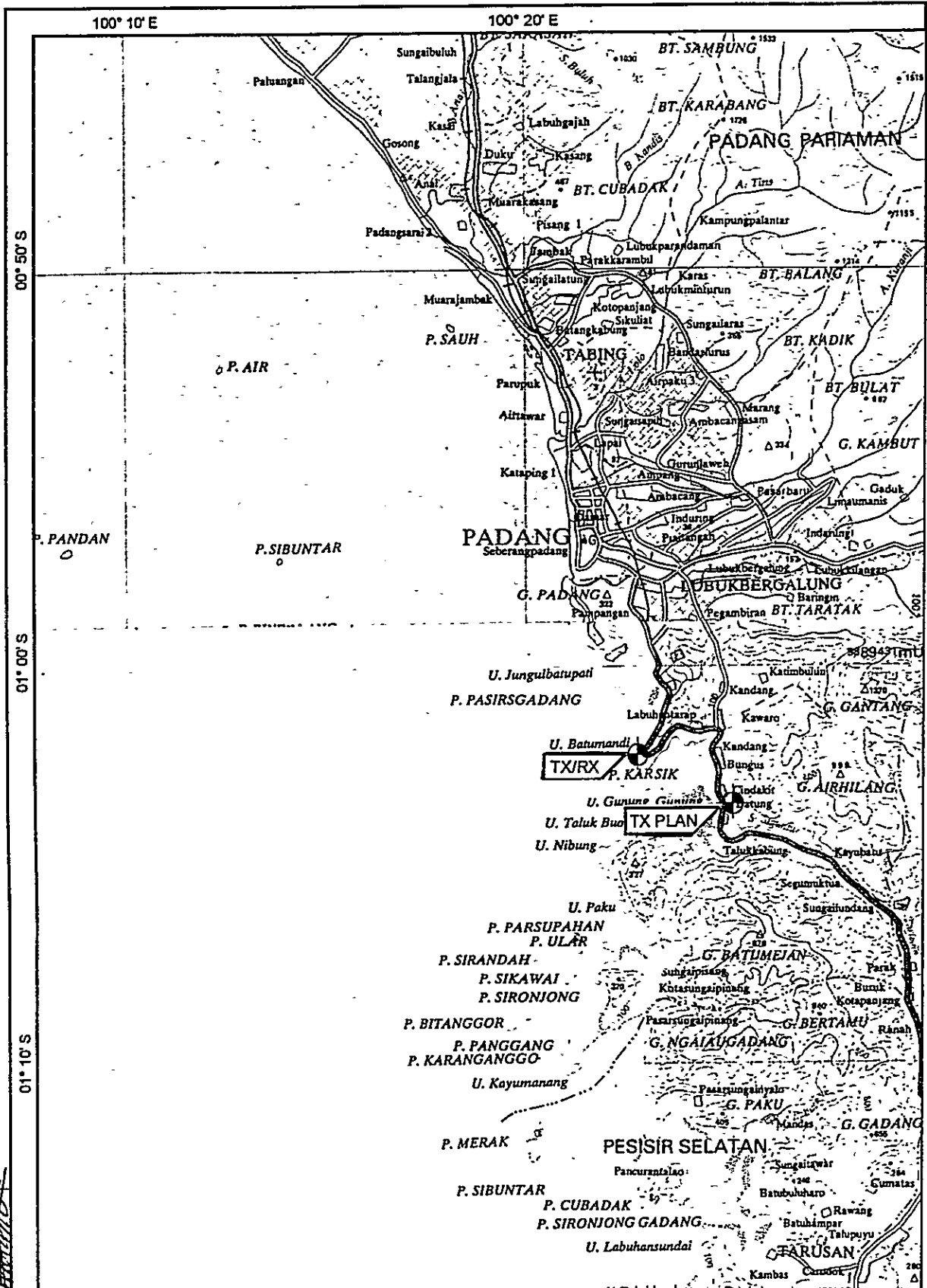
No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
4		30A Power Supply	-	-	V.D.O	1989			
5		30A Power Supply	-	-	Naiga	1989			
3-2		Engine Generator	TF-105H	-	Yanmar	1986			Good
1		Engine Generator	TF-105H	-	Yanmar	1986			Good
2		Engine Generator							
4		Measuring Equipment							
1		Multi Tester	YX-361R	-	Sanwa	-			
2		Frequency Counter	-	-	Anristu	-			
3		Oscilloscope	-	-	Hitachi	-			
4		Mega Cycle	-	-	Edison	-			
5		Megger	-	-	Megger	-			
6		Multi Tester	AX-303TR	-	Sanwa	-			
5		Others							
1		Air Conditioner	WA 45 AV1	-	Daicool	-			
2		Air Conditioner	WA 45 AV1	-	Daicool	-			
3		Air Conditioner	-	-	Daikin	-			
4		Air Conditioner	CW-73Y	-	National	-			

STATUS OF TROUBLES

SITE NAME : TELUK BAYUR

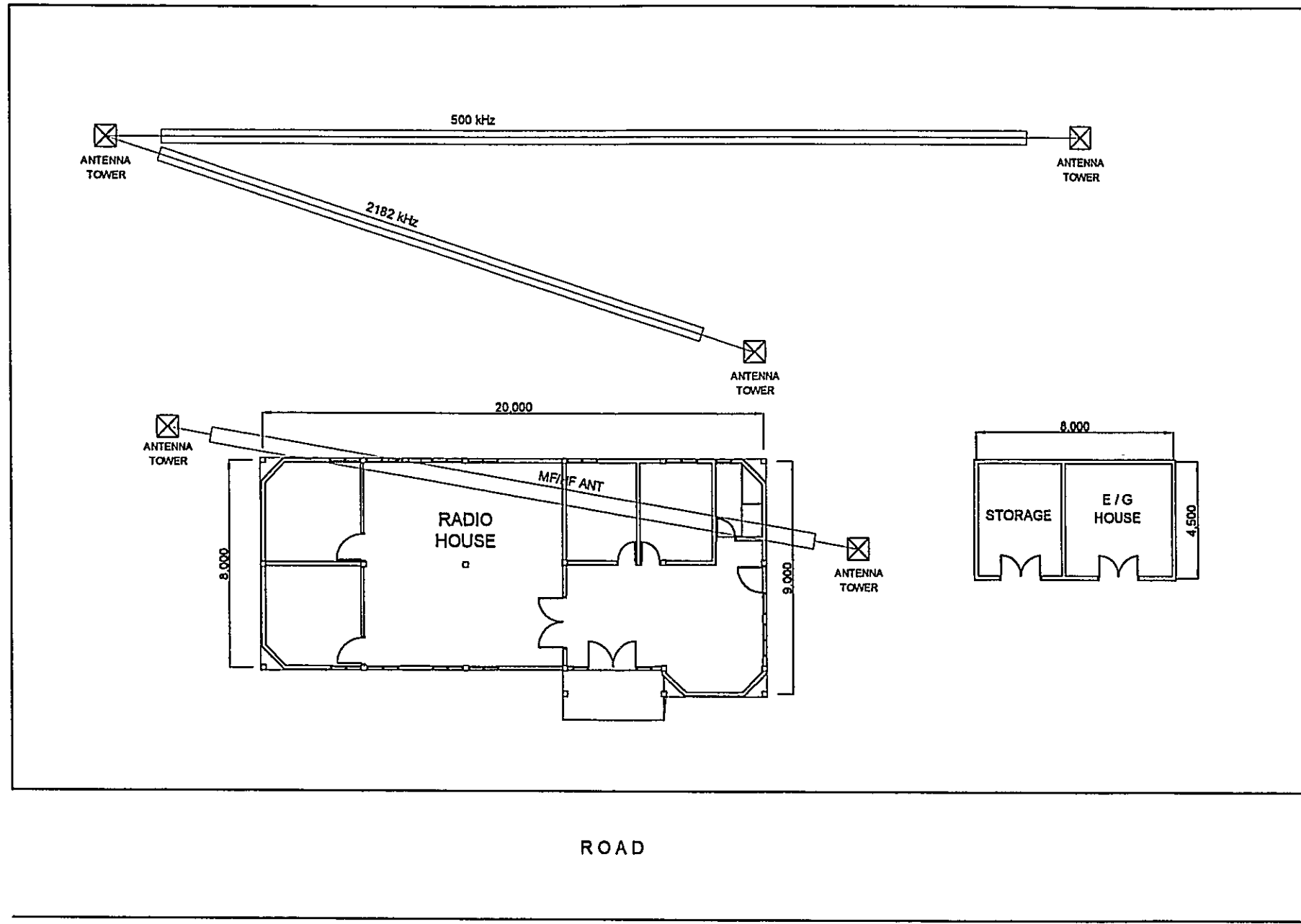
TLB-46-(1/1)

Item / Equipment	Transmitter / -	
Manufacturer	JRC	
Manufacturer in year	Dec. 1982	
Defective panel / unit	Power Amplifier	
Details of Trouble Status	Cause doe to:	Urgency of Repair
	<input type="checkbox"/> Aging	
	<input type="checkbox"/> Lightning	
	<input type="checkbox"/> Corrosion	
	<input checked="" type="checkbox"/> Lack of Spares	
	<input type="checkbox"/> Others	
<u>General Comment for Maintenance:</u>		Repairing to be:
Qualified technician not yet enough		<input checked="" type="checkbox"/> Immediacy
		<input type="checkbox"/> By next year budget
		<input type="checkbox"/> By next project
		<input type="checkbox"/> Unnecessary



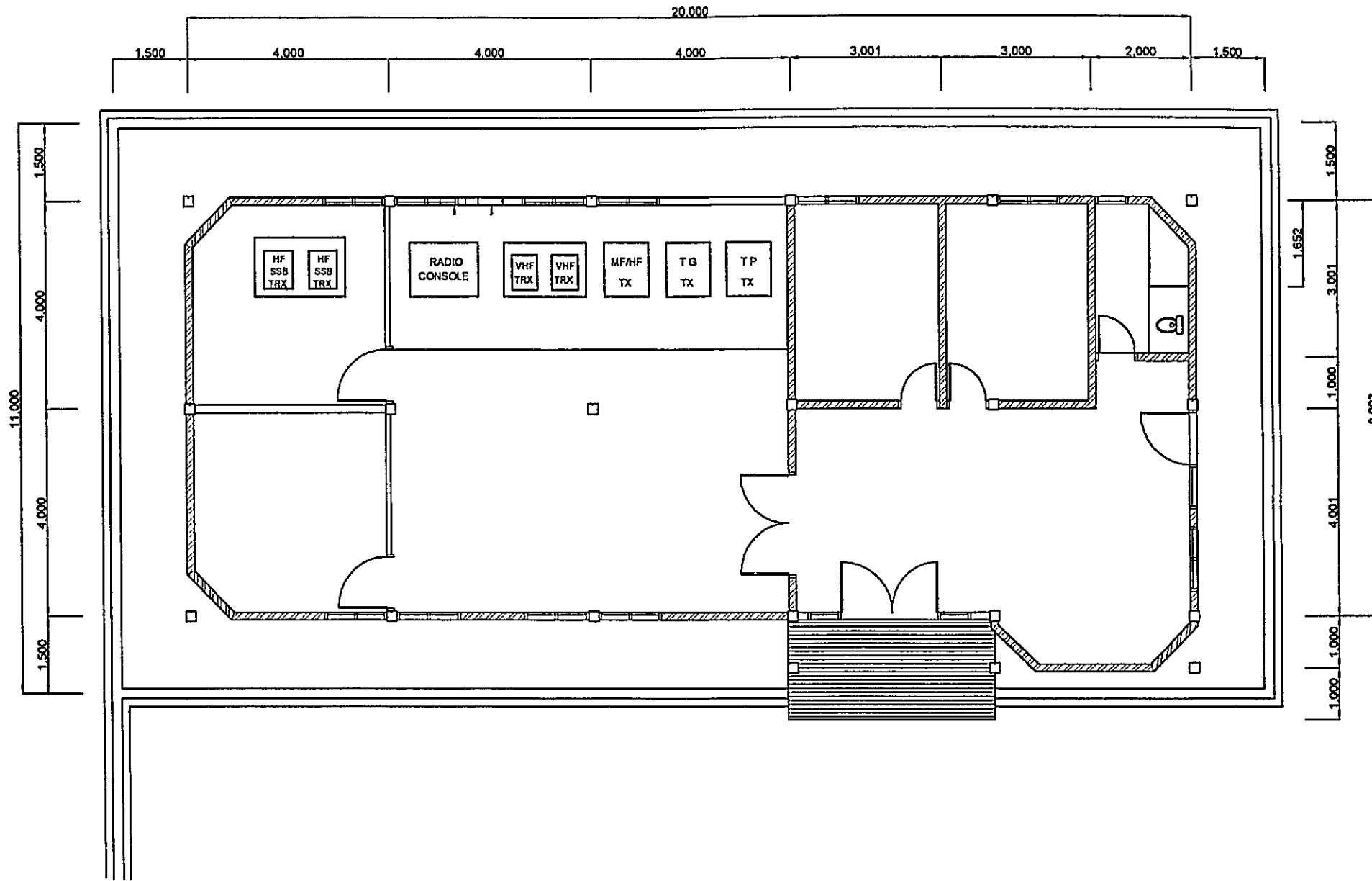
APPROVED BY JICA
 DRAWN BY AAB

DATE	DRAWING TITLE	SHEET NO.
July 03, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 250,000	TELUK BAYUR	
DIMENSION	DRAWING NO.	
Meter	S, R, O, P, - T, L, B, - 0, 4, 6, - 1	
- PT. Aneka Asia Buana		



DRAWN BY: AIB
 APPROVED BY: JICA

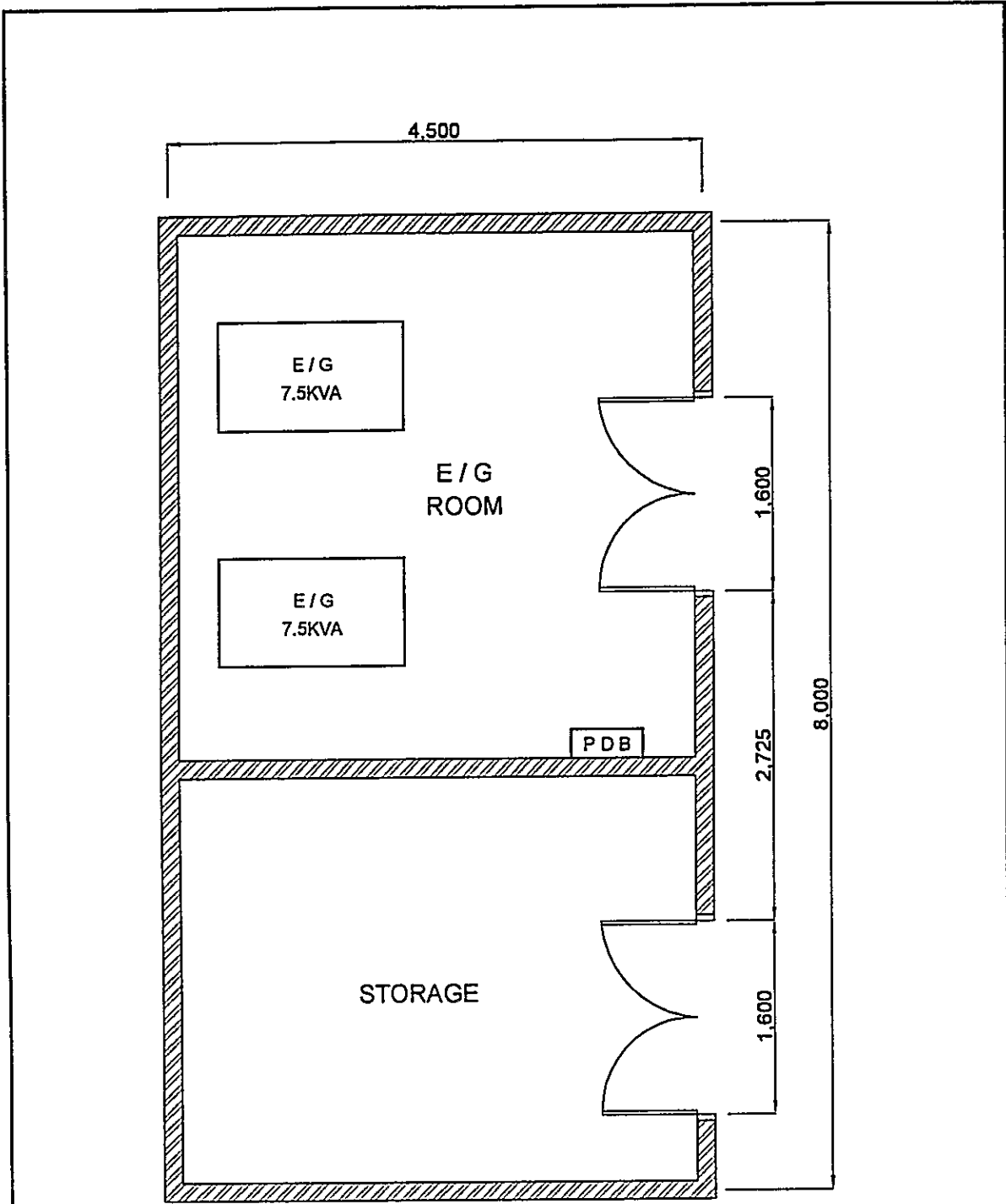
DATE	DRAWING TITLE	SHEET NO
June 22, 2001	ANTENNA LAYOUT	1/1
SCALE	SITE NAME	
1 : 200	TELUK BAYUR	
DIMENSION	DRAWING NO.	
Millimeter	S, R, O, P, - T, L, B, - 0, 4, 6, - 2,	
		PT. Aneka Asia Buana



APPROVED BY JICA:
 DRAWN BY AUB:

- LEGEND**
- HF HIGH FREQUENCY
 - MF MEDIUM FREQUENCY
 - TG TELEGRAPHY
 - TP TELEPHONY
 - TX TRANSMITTER (ING)
 - TRX TRANSCEIVER (ING)
 - VHF VERY HIGH FREQUENCY

DATE June 22, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT	SHEET NO 1/1
SCALE 1 : 100	SITE NAME TELUK BAYUR	
DIMENSION Millimeter	DRAWING NO. S, R, O, P, - , T, L, B, - , 0, 4, 6, - , 3, 1	
- PT. Aneka Asla Buana		

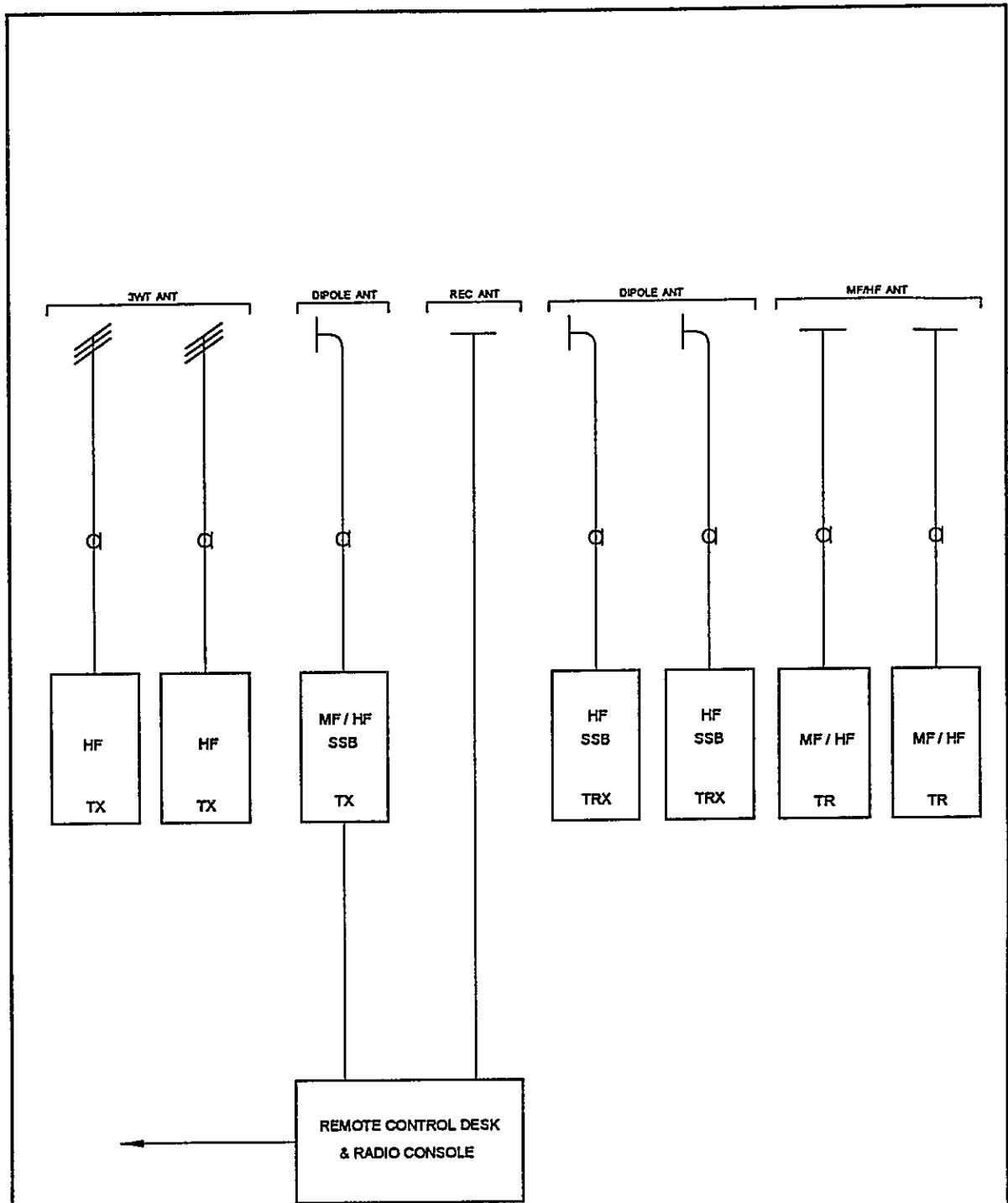


APPROVED BY JICA
 DRAWN BY AAB

LEGEND

- E/G : ENGINE GENERATOR
- KVA : KILO VOLT AMPERE
- PDB : POWER DISTRIBUTION BOARD



DATE	DRAWING TITLE	SHEET NO
June 22, 2001	E/G FLOOR LAYOUT	1/1
SCALE	SITE NAME	
1 : 50	TELUK BAYUR	
DIMENSION	DRAWING NO	
Millimeter	S, R, O, P, -, T, L, B, -, 0, 4, 6, -, 4, 1	

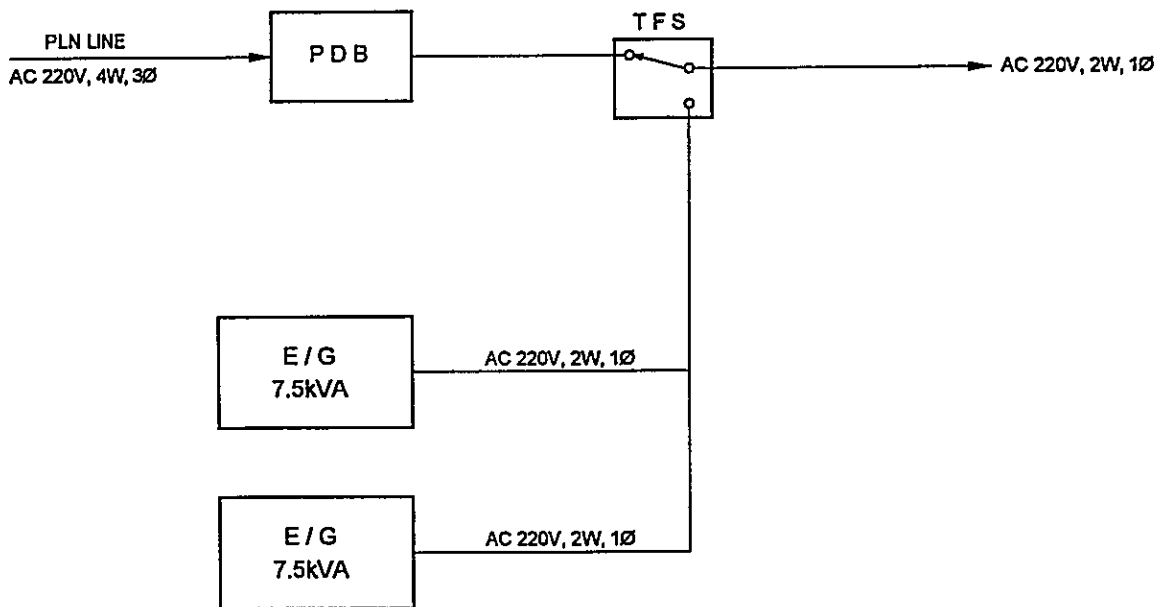


APPROVED BY JICA: 
 DRAWN BY AAB: 

LEGEND

- ANT ANTENNA
- HF : HIGH FREQUENCY
- MF : MEDIUM FREQUENCY
- TX TRANSMITTER (ING)
- VHF VERY HIGH FREQUENCY

DATE June 22, 2001	DRAWING TITLE SYSTEM BLOCK DIAGRAM	SHEET NO. 1 / 1
SCALE No Scale	SITE NAME TELUK BAYUR	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, - , T, L, B, - , 0, 4, 6, - , 5	
 -  PT. Aneka Asia Buana		



LEGEND

- AC ALTERNATING CURRENT
- E/G ENGINE GENERATOR
- HF HIGH FREQUENCY
- KVA KILO VOLT AMPERE
- PDB POWER DISTRIBUTION BOARD
- TFS TRANSFER SWITCH
- TRX TRANSCEIVER (ING)
- V VOLT
- W WIRE
- Ø PHASE

DRAWN BY AAB
 APPROVED BY JICA

DATE	DRAWING TITLE	SHEET NO.
June 22, 2001	POWER BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	TELUK BAYUR	
DIMENSION	DRAWING NO.	
Millimeter	S, R, O, P, - , T, L, B, - , 0, 4, 6, - , 6,	

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

4th-B Class Coast Station Air Bangis (Coast Station No. 47)

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	AIR BANGIS		
	CLASS	4th-B	NO.	47

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Air Bangis, Sungai Beremas - Pasaman			99° 22' 20" E	01° 12' 20" N

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Padang [Taking time: 2.00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	10,000
By Car	to T. Bayur [Taking time: 1.00 hr.]	<input checked="" type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Motel	
By Ahip	to Air Bangis [Taking time: 6.00 hr.]	<input type="checkbox"/> Unpaved road	<input checked="" type="checkbox"/> Light		
			<input type="checkbox"/> 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
<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	Yes No
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input checked="" type="checkbox"/> <input type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input checked="" type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> <input checked="" type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay	<input type="checkbox"/> Rain Leakage	<input checked="" type="checkbox"/> <input type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input type="checkbox"/> Sandy	<input type="checkbox"/> Ground Subsidence	<input checked="" type="checkbox"/> <input type="checkbox"/> Lightning system
Altitude	1.50 M	Telephone Lines	<input checked="" type="checkbox"/> <input type="checkbox"/> Feeder Cable Way
Land area	10,000 m ²	<input type="checkbox"/> Lines	<input type="checkbox"/> <input checked="" type="checkbox"/> City water

3.2 Building Conditions		3.3 Power Source			
Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	One	Voltage	220 V	Good Bad	
Structure	Concrete	Phase	1	<input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System	
Type of roof	Asbestos	Wire	2	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of E/G	
Type of ceiling	Asbestos	kVA	11	<input type="checkbox"/> <input type="checkbox"/> Operations of AVR	
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	V ± %	Day tank	8 Liter
Flooring	Tile	Availability of power per day	15 Hours	Main tank	k Liter
Room Area (m²)		Power interruption /month	20 Times	E/G Stand-by System	
Operation room	13.50	Total interpt. hours /month	80 Hours	<input checked="" type="checkbox"/> Single System	
E / G room	25.00	Max. interpt. hours at once	8 Hours	<input type="checkbox"/> Dual System	
Remark					

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure					TX/RX			
Restoration flow				Chief	1			
Examples of major failure				Operator (skilled)	2 ()	()		
Sufficiency of spares				Technician (skilled)	()	()		
Records of damages		Environmental Conditions		Administrator				
<input type="checkbox"/> Heavy rainfall			Good Bad					
<input type="checkbox"/> Storm			<input checked="" type="checkbox"/> <input type="checkbox"/> External noises	T o t a l				
<input type="checkbox"/> Lightning			<input checked="" type="checkbox"/> <input type="checkbox"/> Air pollution	3				
<input type="checkbox"/> Other calamity								
Institutional and Human Statuses				Training Record				
1 Budget	<input type="checkbox"/> Sufficient	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Insufficient	Course	Class	Location	Period	Trainee
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
3 Measuring eqpt /tools	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
4 Number of Operator	<input type="checkbox"/> Enough	<input checked="" type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough					
5 Number of Technician	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
6 Capability of Operator	<input type="checkbox"/> Skilled	<input checked="" type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					
7 Capability of Technician	<input type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input checked="" type="checkbox"/> Not capable					

SUMMARY OF COAST STATION	SITE	AIR BANGIS		
	CLASS	4th-B	NO.	47

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										
--------------------	--	--	--	--	--	--	--	--	--	--

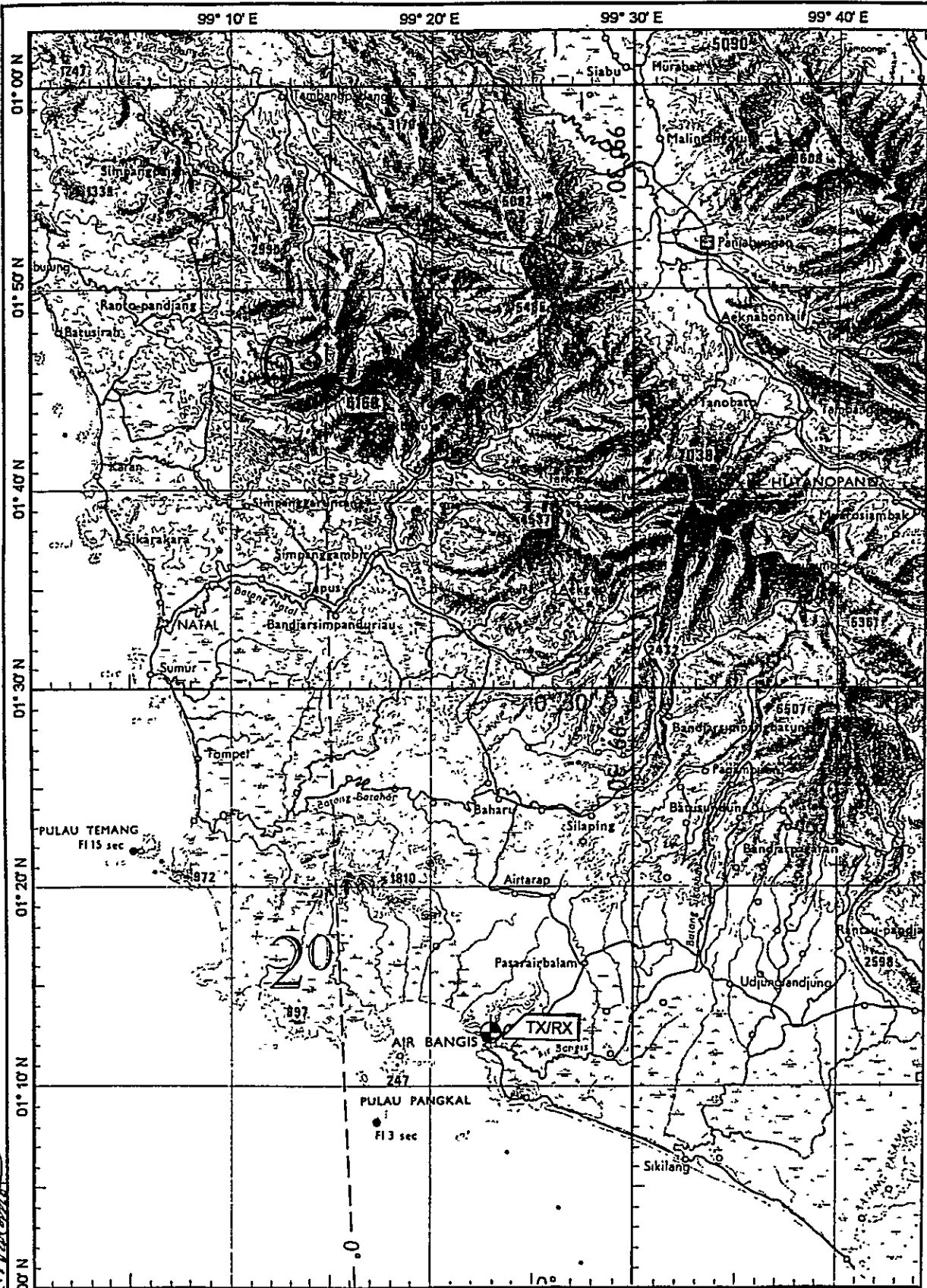
Suggestion	
Remarks	

INVENTORY

Site Name: Air Bangis

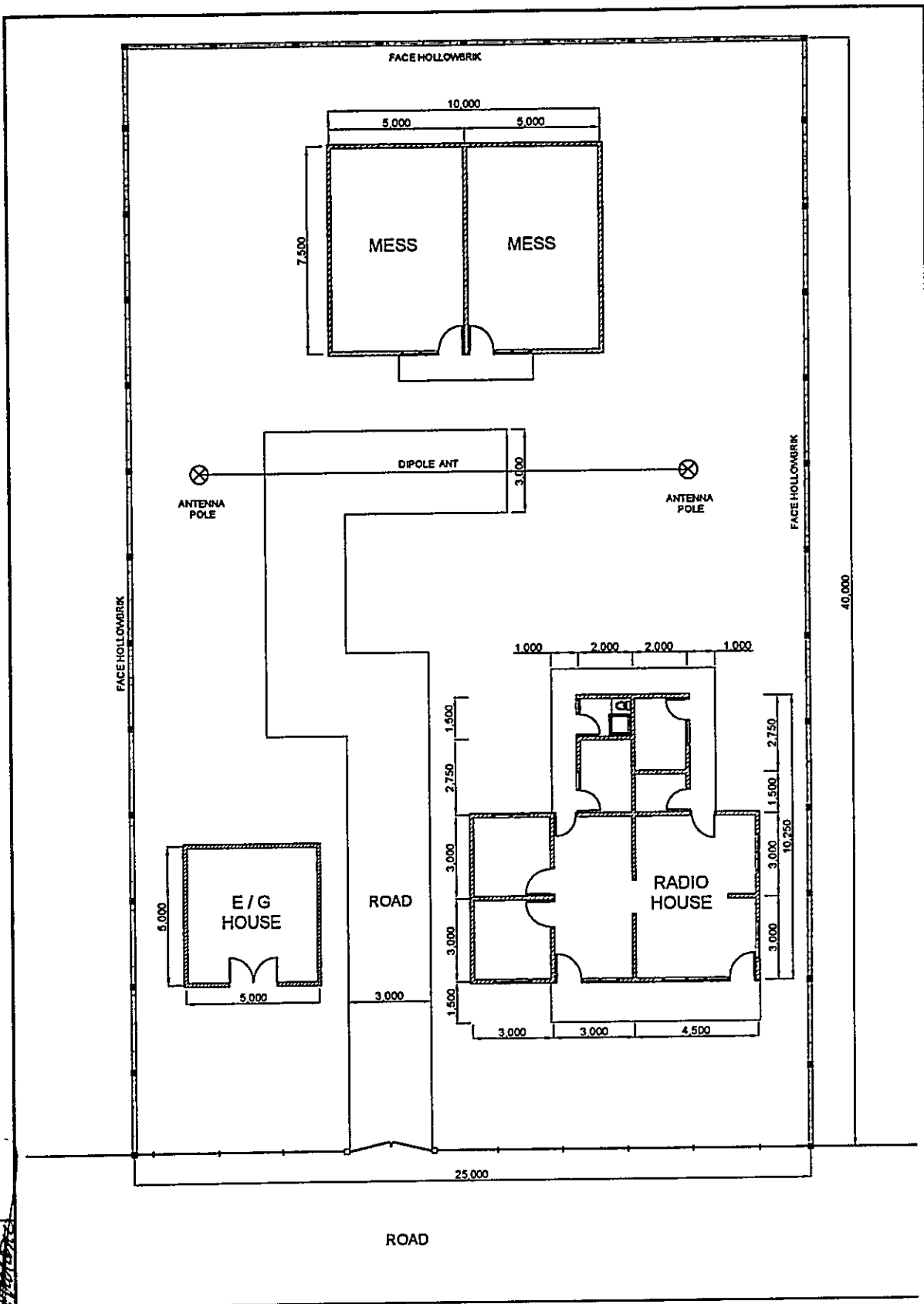
ABS-047- (1 / 1)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1	1	MF/HF System HF Transmitter	IC-M700	-	ICOM	1995			Good
1-2	1	VHF System VHF Transmitter	TM-241A	-	Kenwood	1998			Good
2		Antenna System							
2-1	1	Tower & Mast Antenna pole (2)							Good
3		Power Supply System							
3-1	1	Engine Generator Engine Generator	TS-180	-	Yanmar				Good



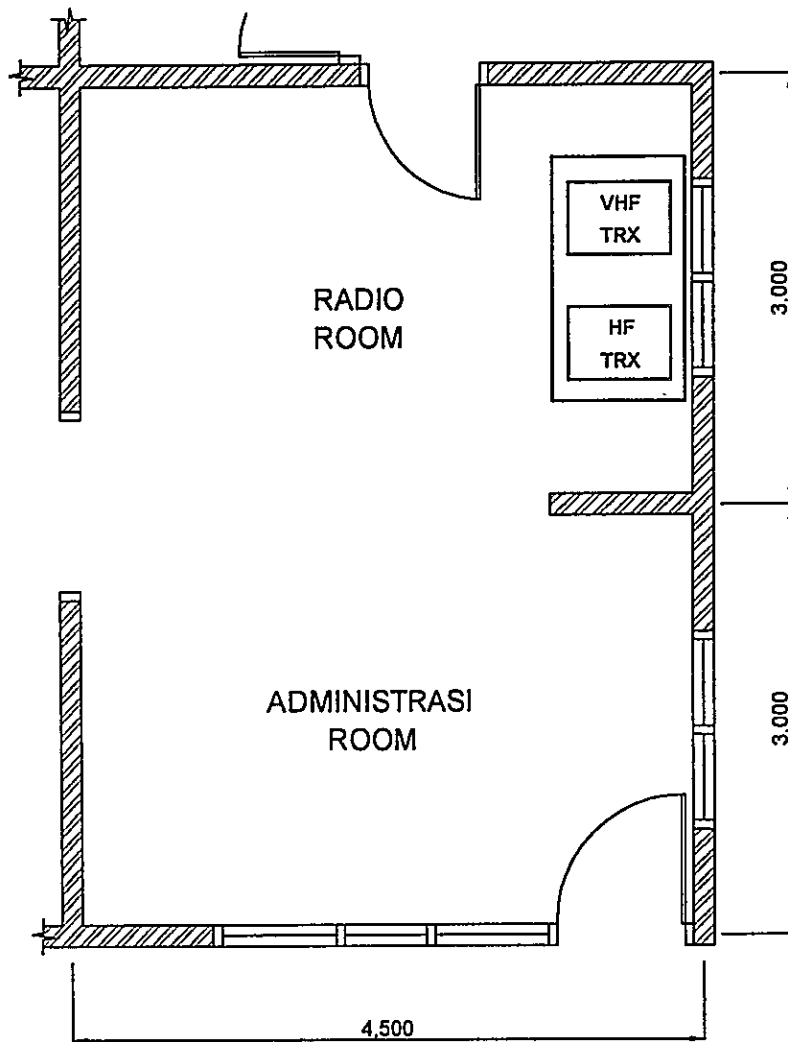
DRAWN BY AAB
 APPROVED BY JICA:

DATE	DRAWING TITLE	SHEET NO.
July 04, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 500,000	AIR BANGIS	
DIMENSION	DRAWING NO.	
Meter	S, R, O, P, - A, B, S, - 0, 4, 7, - 1,	
- PT. Aneka Asia Buana		



DRAWN BY: A.B.
 APPROVED BY: JICA
(Signature)

DATE	DRAWING TITLE	SHEET NO
July 24, 2001	ANTENNA LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 200	AIR BANGIS	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, - , A, B, S, - , 0, 4, 7, - , 2,	





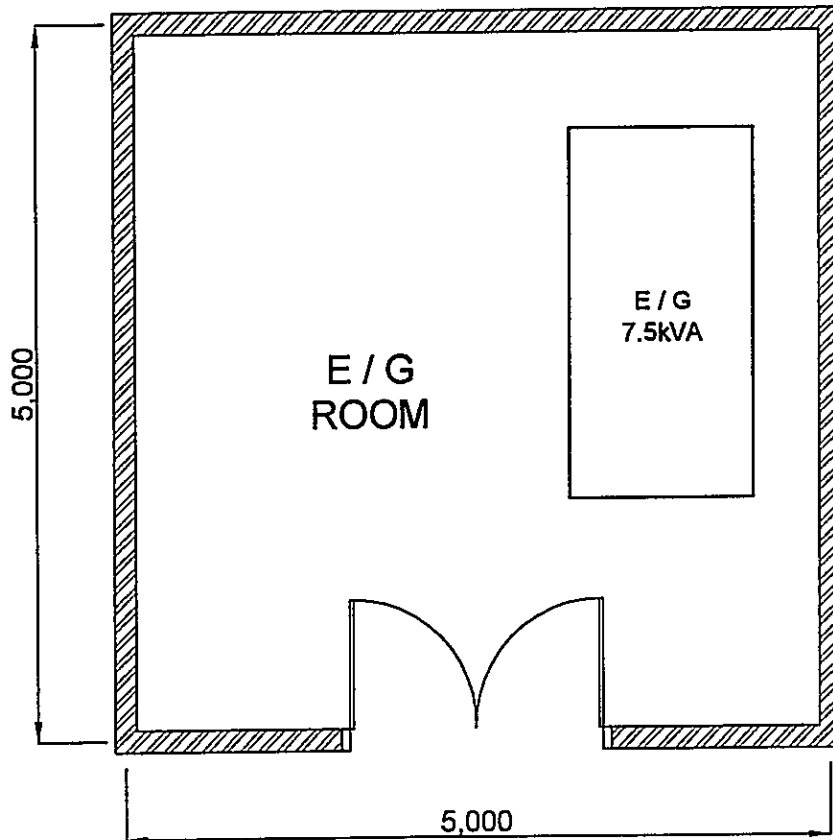
LEGEND

HF : HIGH FREQUENCY
 VHF : VERY HIGH FREQUENCY

APPROVED BY JICA:

DRAWN BY AAB

DATE July 24, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT	SHEET NO 1/1
SCALE 1 : 50	SITE NAME AIR BANGIS	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, -, A, B, S, -, 0, 4, 7, -, 3	
 -  PT. Aneka Asia Buana		



LEGEND

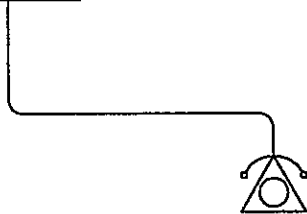
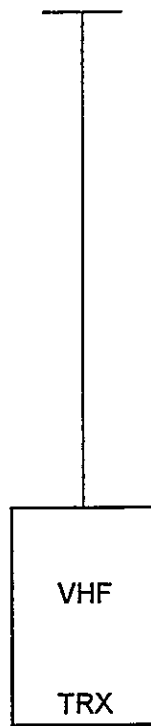
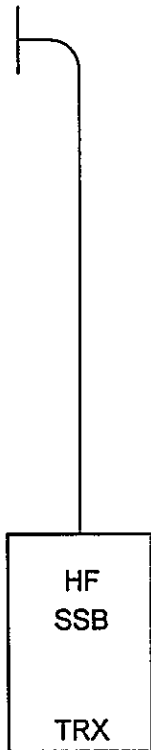
E/G : ENGINE GENERATOR
 KVA : KILO VOLT AMPERE

DRAWN BY A.A.B. APPROVED BY JICA:

DATE August 31, 2001	DRAWING TITLE E/G FLOOR LAYOUT	SHEET NO. 1/1
SCALE 1 : 50	SITE NAME AIR BANGIS	
DIMENSION Millimeter	DRAWING NO S, R, O, P, -, A, B, S, -, 0, 4, 7, -, 4,	
-		PT. Aneka Asia Buana

DIPOLE ANT

WHIP ANT





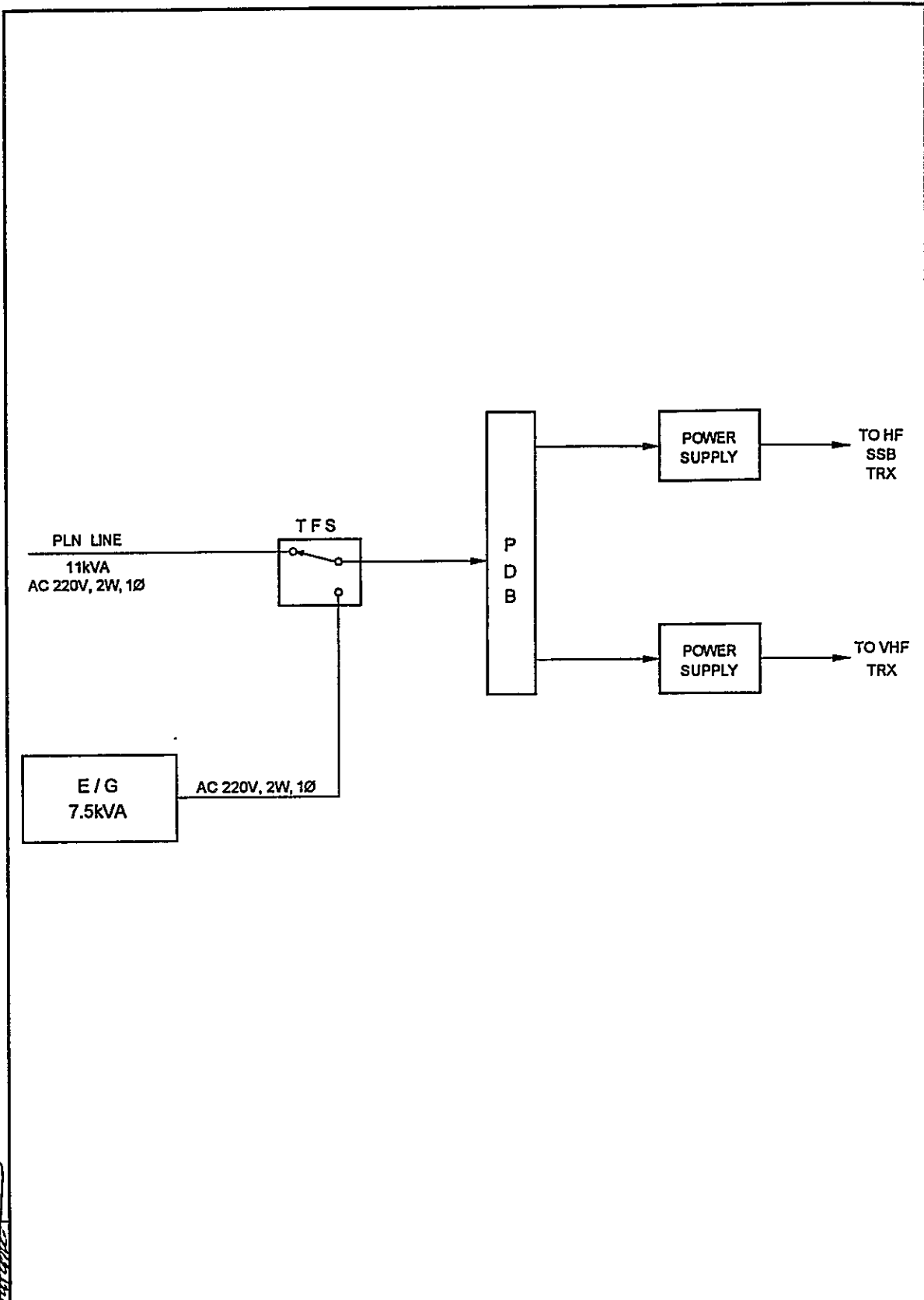
TELEPHONE SET

LEGEND

- ANT ANTENNA
- HF HIGH FREQUENCY
- TRX TRANSCEIVER
- VHF : VERY HIGH FREQUENCY

DRAWN BY AAB
 APPROVED BY JICA

DATE	DRAWING TITLE	SHEET NO.
July 27, 2001	SYSTEM BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	AIR BANGIS	
DIMENSION	DRAWING NO.	
Millimeter	S, R, O, P, -, A, B, S, -, 0, 4, 7, -, 5, 1	
 -  PT. Aneka Asia Buana		



DRAWN BY: A.B. [Signature]
 APPROVED BY: JCA: [Signature]

LEGEND

- | | |
|--------------------------|-----------|
| AC : ALTERNATING CURRENT | V : VOLT |
| E/G : ENGINE GENERATOR | W : WIRE |
| HF : HIGH FREQUENCY | Ø : PHASE |
| KVA : KILO VOLT AMPERE | |
| TFS : TRANSFER SWITCH | |
| TRX : TRANSCIVER (ING) | |

DATE August 01, 2001	DRAWING TITLE POWER BLOCK DIAGRAM	SHEET NO 1/1
SCALE No Scale	SITE NAME AIR BANGIS	
DIMENSION Milimeter	DRAWING NO S, R, O, P, - A, B, S, - 0, 4, 7, - 6,	

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

4th-B Class Coast Station Sipora (Coast Station No. 48)

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	SIPORA		
	CLASS	4th-B	NO.	48

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Desa Si Uban -Sipora - Mentawai			99° 43' 43" E	02° 11' 12" S

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Padang [Taking time: 2:00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	2,000
By Car	to Ti Bayur [Taking time: 1:00 hr.]	<input type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Motel	
By Ship	to Location [Taking time: 8:00 hr.]	<input checked="" type="checkbox"/> Unpaved road	<input checked="" type="checkbox"/> Light		
			<input type="checkbox"/> 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	
<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input type="checkbox"/> Flood	Yes	No
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input checked="" type="checkbox"/> Flood Tide	<input checked="" type="checkbox"/>	<input type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage	<input type="checkbox"/>	<input checked="" type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence	<input type="checkbox"/>	<input type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input checked="" type="checkbox"/> Sandy			<input type="checkbox"/>	<input type="checkbox"/> Lightning system
Altitude	1.50 M		Telephone Lines	<input type="checkbox"/>	<input checked="" type="checkbox"/> Feeder Cable Way
Land area	m ²		<input type="checkbox"/> Lines	<input type="checkbox"/>	<input checked="" type="checkbox"/> City water

3.2 Building Conditions			3.3 Power Source		
Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	One	Voltage	V	V	Good Bad
Structure	Concrete	Phase			<input type="checkbox"/> <input type="checkbox"/> Power Supply System
Type of roof	Asbestos	Wire			<input type="checkbox"/> <input type="checkbox"/> Operations of E/G
Type of ceiling	Asbestos	kVA			<input type="checkbox"/> <input type="checkbox"/> Operations of AVR
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	V ± %		Day tank
Flooring	Tile	Availability of power per day	Hours	Main tank	Liter
Room Area (m²)		Power interruption /month	Times	E/G Stand-by System	
Operation room	6.00	Total interpt. hours /month	Hours	<input type="checkbox"/> Single System	
E / G room		Max. interpt. hours at once	Hours	<input type="checkbox"/> Dual System	
Remark					

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure							TX/RX	
Restoration flow				Chief				
Examples of major failure				Operator (skilled)			0	0
Sufficiency of spares				Technician (skilled)			0	0
Records of damages		Environmental Conditions		Administrator				
<input type="checkbox"/> Heavy rainfall		Good	Bad					
<input type="checkbox"/> Storm		<input checked="" type="checkbox"/>	<input type="checkbox"/>	External noises				
<input type="checkbox"/> Lightning		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Air pollution				
<input type="checkbox"/> Other calamity				Total				
Institutional and Human Statuses				Training Record				
1 Budget	<input type="checkbox"/> Sufficient	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Insufficient	Course	Class	Location	Period	Trainee
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
3 Measuring eqpt./tools	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
4 Number of Operator	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
5 Number of Technician	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
6 Capability of Operator	<input type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input checked="" type="checkbox"/> Not capable					
7 Capability of Technician	<input type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input checked="" type="checkbox"/> Not capable					

SUMMARY OF COAST STATION	SITE	SIPORA		
	CLASS	4th-B	NO.	48

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			

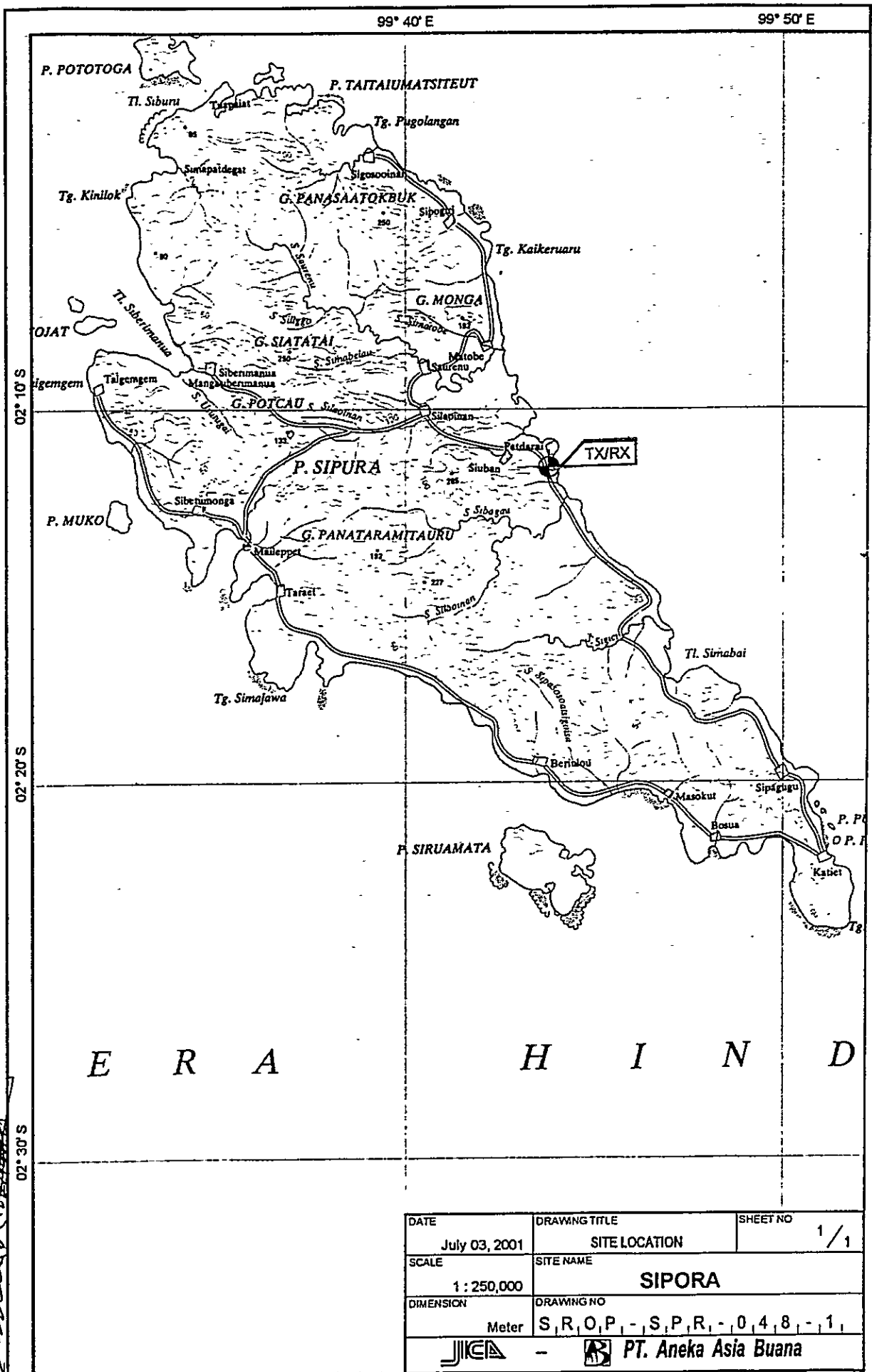
7. COMMENTS	
Suggestion	
Remarks	Operated by Adpel

INVENTORY

Site Name: Sipora

SPR-048- (1 / 1)

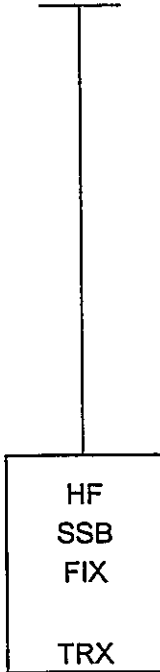
No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1 I-1 1		Radio Equipment MF/HF System HF Transmitter	IC-M700	-	ICOM	1997			Good



DRAWN BY AAB
 APPROVED BY JICA

DATE	DRAWING TITLE	SHEET NO
July 03, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 250,000	SIPORA	
DIMENSION	DRAWING NO	
Meter	S, R, O, P, - S, P, R, - 0, 4, 8, - 1,	
- PT. Aneka Asia Buana		

WHIP ANT

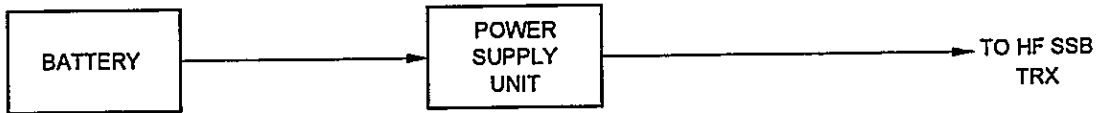


DRAWN BY AAB: *[Signature]*
APPROVED BY JICA: *[Signature]*



LEGEND

- ANT : ANTENNA
- FIX : FIX COMMUNICATION
- HF : HIGH FREQUENCY
- TRX : TRANSCEIVER (ING)

DATE July 27, 2001	DRAWING TITLE SYSTEM BLOCK DIAGRAM	SHEET NO. 1/1
SCALE No Scale	SITE NAME SIPORA	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, S, P, R, -, 0, 4, 8, -, 5,	
- PT. Aneka Asia Buana		



DRAWN BY AAB
 APPROVED BY JICA.

DATE	DRAWING TITLE	SHEET NO
July 27, 2001	POWER BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	SIPORA	
DIMENSION	DRAWING NO.	
Millimeter	S, R, O, P, -, S, P, R, -, 0, 4, 8, -, 6	
 -  PT. Aneka Asia Buana		

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

4th-B Class Coast Station Siberut (Coast Station No. 49)

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	SIBERUT		
	CLASS	4th-B	NO.	49

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX				99° 11' 12" E	01° 33' 27" S

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Padang [Taking time: 2.00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	1,500
By Car	to Tl. Bayur [Taking time: 1.00 hr.]	<input type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Motel	
By Ship	to Location [Taking time: 8.00 hr.]	<input checked="" type="checkbox"/> Unpaved road	<input checked="" type="checkbox"/> Light		
			<input type="checkbox"/> 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
<input type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input type="checkbox"/> Flood	Yes No
<input checked="" type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input type="checkbox"/> Flood Tide	<input type="checkbox"/> <input checked="" type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage	<input type="checkbox"/> <input checked="" type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence	<input type="checkbox"/> <input checked="" type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input checked="" type="checkbox"/> Sandy			<input type="checkbox"/> <input checked="" type="checkbox"/> Lightning system
Altitude	1.50 M		Telephone Lines	<input type="checkbox"/> <input checked="" type="checkbox"/> Feeder Cable Way
Land area	m ²		<input type="checkbox"/> Lines	<input type="checkbox"/> <input checked="" type="checkbox"/> City water

3.2 Building Conditions		3.3 Power Source			
Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	One	Voltage	220 V	Good Bad	
Structure	Concrete	Phase	1	<input type="checkbox"/> <input type="checkbox"/> Power Supply System	
Type of roof	Asbestos	Wire	2	<input type="checkbox"/> <input type="checkbox"/> Operations of E/G	
Type of ceiling	Asbestos	kVA	1	<input type="checkbox"/> <input type="checkbox"/> Operations of AVR	
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	V ± %	Day tank	Liter
Flooring	Tile	Availability of power per day	24 Hours	Main tank	k Liter
Room Area (m ²)		Power interruption /month		E/G Stand-by System	
Operation room	6.00	Total interpt. hours /month	Hours	<input type="checkbox"/> Single System	
E / G room		Max. interpt. hours at once	Hours	<input type="checkbox"/> Dual System	
Remark					

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure				TX/RX				
Restoration flow				Chief				
Examples of major failure				Operator (skilled)		() ()		
Sufficiency of spares				Technician (skilled)		() ()		
Records of damages		Environmental Conditions		Administrator				
<input type="checkbox"/> Heavy rainfall		Good	Bad					
<input type="checkbox"/> Storm		<input checked="" type="checkbox"/>	<input type="checkbox"/> External noises	Total				
<input type="checkbox"/> Lightning		<input checked="" type="checkbox"/>	<input type="checkbox"/> Air pollution					
<input type="checkbox"/> Other calamity								
Institutional and Human Statuses				Training Record				
1 Budget	<input type="checkbox"/> Sufficient	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Insufficient	Course	Class	Location	Period	Trainee
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
3 Measuring eqpt./tools	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
4 Number of Operator	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
5 Number of Technician	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
6 Capability of Operator	<input type="checkbox"/> Skilled	<input checked="" type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					
7 Capability of Technician	<input type="checkbox"/> Skilled	<input checked="" type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					

SUMMARY OF COAST STATION	SITE	SIBERUT		
	CLASS	4th-B	NO.	49

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	Operated by Kanpel Staff

INVENTORY

Site Name: Siberut

SBR-049-(1/1)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1 1-1 1		Radio Equipment MF/HF System HF Transmitter	IC-M700	-	ICOM	1995			Good

OPERATION SCHEDULE (FREQUENCIES)

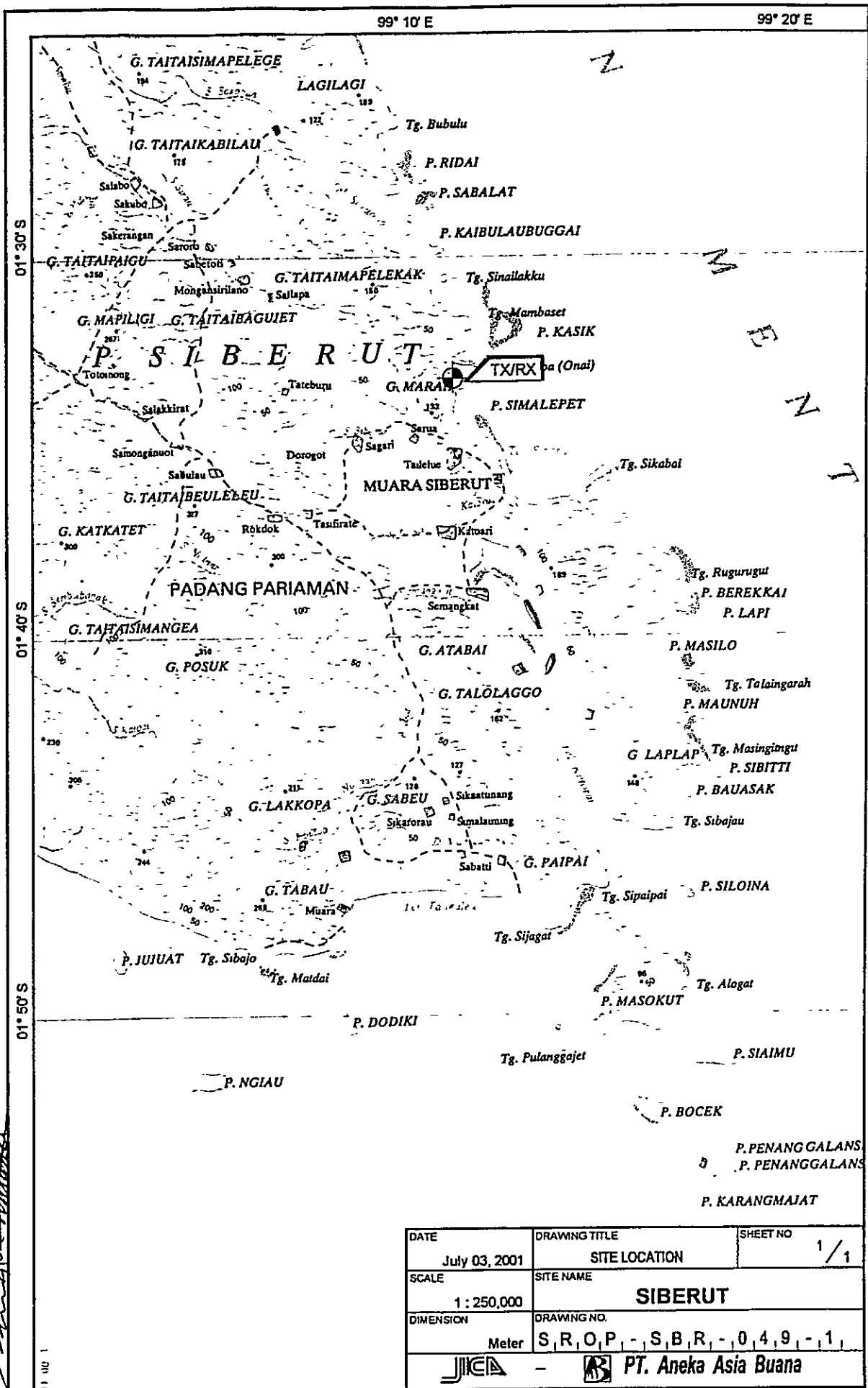
Site Name: Siberut

SBR-049-(1/1)

Call Sign : Mobile Service

Fix Service :

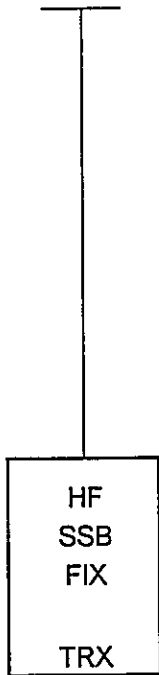
FREQ (KHZ)	EMISSION	POWER (W)	UTC																							
			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1 Fix Service																										
2 5.316,0	J3E	100																								
3 6.926,0	J3E	100																								
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										
13																										
14																										
15																										
16																										
17																										
18																										
19																										
20																										
21																										
22																										
23																										
24																										
25																										
26																										
27																										



DRAWN BY AAB
 APPROVED BY JICA:

DATE	DRAWING TITLE	SHEET NO
July 03, 2001	SITE LOCATION	1/1
SCALE	SITE NAME	
1 : 250,000	SIBERUT	
DIMENSION	DRAWING NO.	
Meter	S, R, O, P, - S, B, R, - 0, 4, 9, - 1, 1	
PT. Aneka Asia Buana		

WHIP ANT



DRAWN BY AAB
APPROVED BY JICA

LEGEND

- ANT : ANTENNA
- FIX : FIX COMMUNICATION
- HF : HIGH FREQUENCY
- TRX : TRANSCEIVER (ING)

DATE	DRAWING TITLE	SHEET NO.
July 27, 2001	SYSTEM BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	SIBERUT	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, - S, B, R, - 0, 4, 9, - 5,	
JICA - PT. Aneka Asia Buana		

PLN LINE
1kVA
AC 220V, 2W, 1Ø



TO HF SSB
TRX

LEGEND

- AC : ALTERNATING CURRENT
- E/G : ENGINE GENERATOR
- kVA : KILO VOLT AMPERE
- V : VOLT
- W : WIRE
- Ø : PHASE

DRAWN BY AAB
APPROVED BY JICA

DATE July 27, 2001	DRAWING TITLE POWER BLOCK DIAGRAM	SHEET NO 1/1
SCALE No Scale	SITE NAME SIBERUT	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, -, S, B, R, -, 0, 4, 9, -, 6, 1	
- PT. Aneka Asia Buana		

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

4th-B Class Coast Station Sikabaluan (Coast Station No. 50)

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	SIKABALUAN		
	CLASS	4th-B	NO.	50

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Sikabalu-an-Siberut Utara-Mentawai			98° 57' 01" E	01° 05' 03" S

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Padang [Taking time: 2.00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	1,500
By Car	to Tl. Bayur [Taking time: 1.00 hr.]	<input type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input type="checkbox"/> Motel	
By Ship	to Location [Taking time: 8.00 hr.]	<input checked="" type="checkbox"/> Unpaved road	<input checked="" type="checkbox"/> Light		
			<input type="checkbox"/> None		

3. CONDITIONS OF STATION		Refer to attached drawing
--------------------------	--	---------------------------

3.1 Site Conditions			
Topography	Nature of Soil		Past disaster of site
<input type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input type="checkbox"/> Flood
<input checked="" type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input type="checkbox"/> Flood Tide
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence
<input type="checkbox"/> Valley	<input checked="" type="checkbox"/> Sandy		
Altitude	1.50 M		Telephone Lines
Land area	m ²		<input type="checkbox"/> Lines

3.2 Building Conditions		3.3 Power Source		
Constructions		PLN Source	E/G	Existing Power Conditions
Num. of story	One	Voltage	V	Good Bad
Structure	Concrete	Phase		<input type="checkbox"/> <input type="checkbox"/> Power Supply System
Type of roof	Asbestos	Wire		<input type="checkbox"/> <input type="checkbox"/> Operations of E/G
Type of ceiling	Asbestos	kVA		<input type="checkbox"/> <input type="checkbox"/> Operations of AVR
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine
Wall finish	Mortar	Fluctuations	V ± %	Day tank
Flooring	Tile	Availability of power per day	Hours	Main tank
Room Area (m ²)		Power interruption /month	Times	E/G Stand-by System
Operation room	6.00	Total interpt. hours /month	Hours	<input type="checkbox"/> Single System
E / G room		Max. interpt. hours at once	Hours	<input type="checkbox"/> Dual System
Remark				

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure				TX/RX				
Restoration flow				Chief				
Examples of major failure				Operator (skilled)	()	()		
Sufficiency of spares				Technician (skilled)	()	()		
Records of damages		Environmental Conditions		Administrator				
<input type="checkbox"/> Heavy rainfall		Good	Bad					
<input type="checkbox"/> Storm		<input checked="" type="checkbox"/>	<input type="checkbox"/> External noises	Total				
<input type="checkbox"/> Lightning		<input checked="" type="checkbox"/>	<input type="checkbox"/> Air pollution					
<input type="checkbox"/> Other calamity								
Institutional and Human Statuses				Training Record				
1 Budget	<input type="checkbox"/> Sufficient	<input type="checkbox"/> Reasonable	<input type="checkbox"/> Insufficient	Course	Class	Location	Period	Trainee
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough					
3 Measuring eqpt./tools	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough					
4 Number of Operator	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough					
5 Number of Technician	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough					
6 Capability of Operator	<input type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					
7 Capability of Technician	<input type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					

SUMMARY OF COAST STATION	SITE	SIKABALUAN		
	CLASS	4th-B	NO.	50

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	Operated by Kanpel Staff

INVENTORY

Site Name: Sikabalu

SBN-050- (1 / 1)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1 1-1 1		Radio Equipment MF/HF System HF Transmitter	IC-M700	-	ICOM	1997			Good

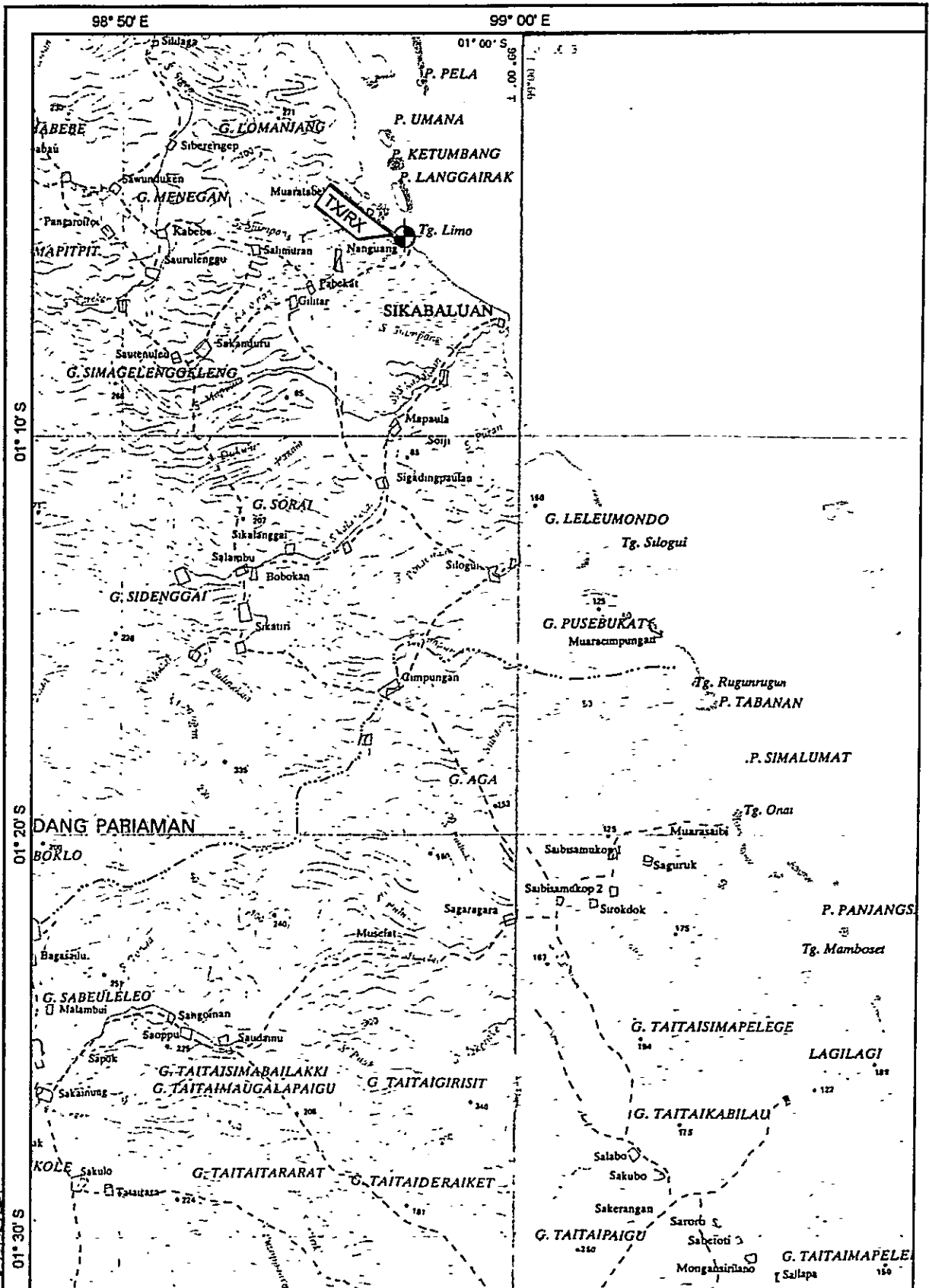
OPERATION SCHEDULE (FREQUENCIES)

Call Sign : Mobile Service :
Fix Service :

Site Name: Sikabaluau

SBN-050-(1/1)

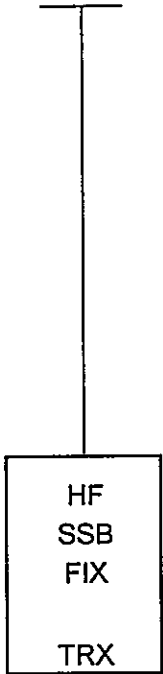
	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC																								REMARK
				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Fix Service																												
1	5 316,0	J3E	100																									
2	6 926,0	J3E	100																									
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												
13																												
14																												
15																												
16																												
17																												
18																												
19																												
20																												
21																												
22																												
23																												
24																												
25																												
26																												
27																												



DRAWN BY AAB
 APPROVED BY AICA: *[Signature]*

DATE	DRAWING TITLE	SHEET NO
July 03, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 250,000	SIKABALUAN	
DIMENSION	DRAWING NO	
Meter	S R O P - S B N - 0 5 0 - 1	

WHIP ANT



LEGEND

- ANT : ANTENNA
- FIX : FIX COMMUNICATION
- HF : HIGH FREQUENCY
- TRX : TRANSCIEVER (ING)

APPROVED BY JICA
DRAWN BY AAB

DATE July 27, 2001	DRAWING TITLE SYSTEM BLOCK DIAGRAM	SHEET NO. 1/1
SCALE No Scale	SITE NAME SIKABALUAN	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, S, B, N, -, 0, 5, 0, -, 5,	
JICA - PT. Aneka Asia Buana		

BATTERY



POWER
SUPPLY
UNIT



TO HF SSB
TRX

DRAWN BY AAB.
APPROVED BY JICA.

DATE	DRAWING TITLE	SHEET NO
July 27, 2001	POWER BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	SIKABALUAN	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, -, S, B, N, -, 0, 5, 0, -, 6,	
JICA - PT. Aneka Asia Buana		

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

4th-B Class Coast Station Sikakap (Coast Station No. 51)

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	SIKAKAP		
	CLASS	4th-B	NO.	51

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Sikakap-Pagai Utara-Mentawai			100° 12' 52" E	02° 46' 22" S

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Padang [Taking time: 2:00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	3
By Car	to T. Bayur [Taking time: 1:00 hr.]	<input type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Motel	
By Ship	to Sikakap [Taking time: 8:00 hr.]	<input checked="" type="checkbox"/> Unpaved road	<input checked="" type="checkbox"/> Light		
			<input type="checkbox"/> 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
<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input type="checkbox"/> Flood	Yes No
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input checked="" type="checkbox"/> Flood Tide	<input checked="" type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage	<input type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence	<input checked="" type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input checked="" type="checkbox"/> Sandy			<input checked="" type="checkbox"/> Lightning system
Altitude	1.50 M		Telephone Lines	<input type="checkbox"/> Feeder Cable Way
Land area	m ²		<input type="checkbox"/> Lines	<input type="checkbox"/> City water

3.2 Building Conditions		3.3 Power Source			
Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	One	Voltage	220 V	Good Bad	
Structure	Concrete	Phase	1	<input type="checkbox"/> Power Supply System	
Type of roof	Asbestos	Wire	2	<input type="checkbox"/> Operations of E/G	
Type of ceiling	Asbestos	kVA		<input type="checkbox"/> Operations of AVR	
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	V ± %	Day tank	Liter
Flooring	Tile	Availability of power per day	24 Hours	Main tank	k Liter
Room Area (m ²)		Power interruption /month	Times	E/G Stand-by System	
Operation room	6.00	Total interpt. hours /month	Hours	<input type="checkbox"/> Single System	
E / G room		Max. interpt. hours at once	Hours	<input type="checkbox"/> Dual System	
Remark					

4. OPERATION AND MAINTENANCE	5. PERSONNEL FORMATIONS
Actions taken in equipment failure	
Restoration flow	Chief
Examples of major failure	Operator (skilled) () ()
Sufficiency of spares	Technician (skilled) () ()
Records of damages	
<input type="checkbox"/> Heavy rainfall	Administrator
<input type="checkbox"/> Storm	T o t a l
<input type="checkbox"/> Lightning	
<input type="checkbox"/> Other calamity	
Environmental Conditions	
<input checked="" type="checkbox"/> External noises	
<input checked="" type="checkbox"/> Air pollution	
Institutional and Human Statuses	
1 Budget	<input type="checkbox"/> Sufficient <input type="checkbox"/> Reasonable <input checked="" type="checkbox"/> Insufficient
2 Spares	<input type="checkbox"/> Enough <input type="checkbox"/> Reasonable <input checked="" type="checkbox"/> Not enough
3 Measuring eqpt./tools	<input type="checkbox"/> Enough <input type="checkbox"/> Reasonable <input checked="" type="checkbox"/> Not enough
4 Number of Operator	<input type="checkbox"/> Enough <input type="checkbox"/> Reasonable <input checked="" type="checkbox"/> Not enough
5 Number of Technician	<input type="checkbox"/> Enough <input type="checkbox"/> Reasonable <input checked="" type="checkbox"/> Not enough
6 Capability of Operator	<input type="checkbox"/> Skilled <input checked="" type="checkbox"/> Not so bad <input type="checkbox"/> Not capable
7 Capability of Technician	<input type="checkbox"/> Skilled <input checked="" type="checkbox"/> Not so bad <input type="checkbox"/> Not capable
Training Record	
	Course Class Location Period Trainee

SUMMARY OF COAST STATION	SITE	SIKAKAP		
	CLASS	4th-B	NO.	51

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	Office and operated by Kanpel Staff

INVENTORY

Site Name: Sikakap

SKK-051- (1 / 1)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1 1-1 1		Radio Equipment MF/HF System HF Transmitter	IC-M700	-	ICOM	1997			Good

Teluk Bayur

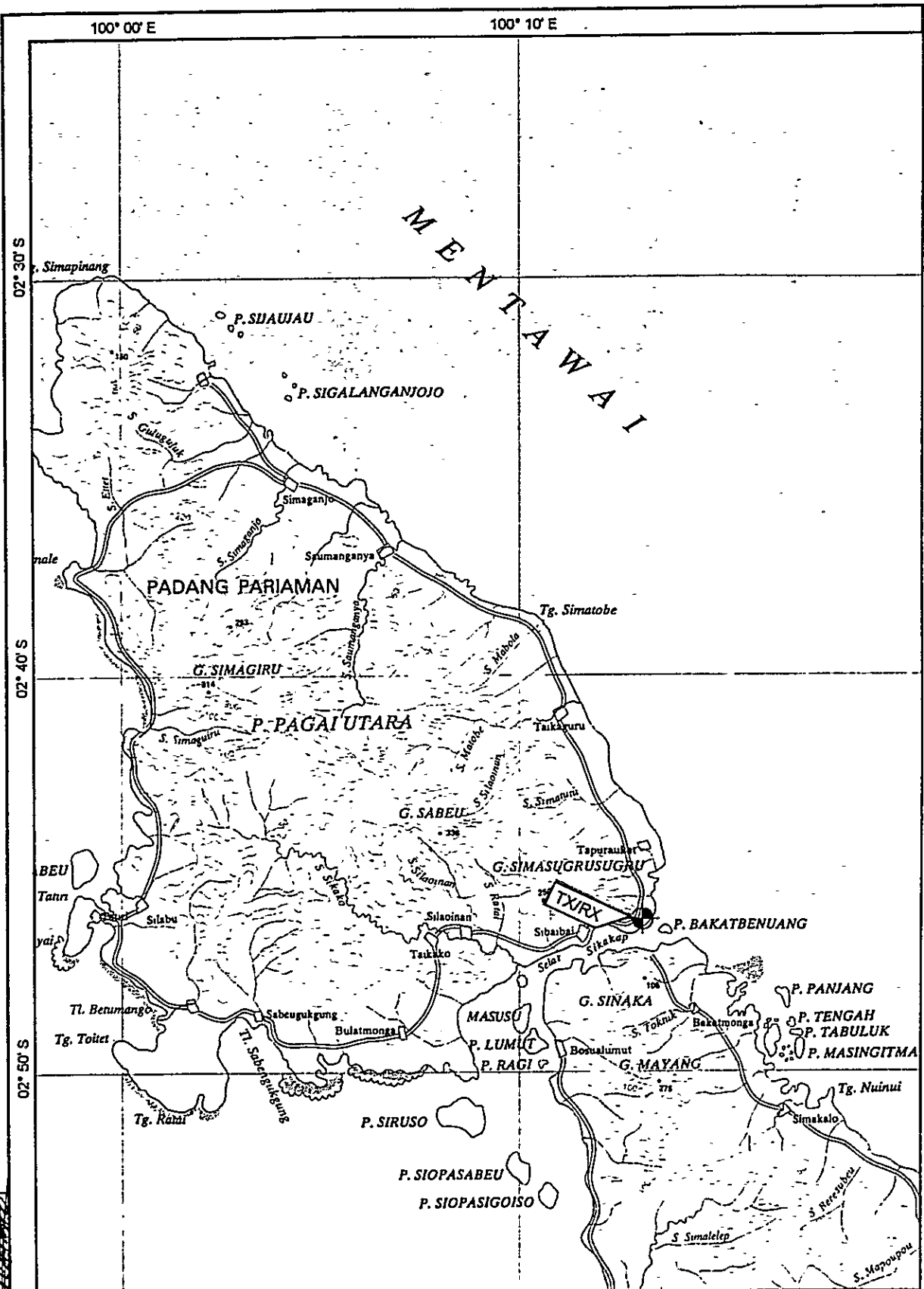
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Sikakap

SKK-051-(1/1)

Call Sign : Mobile Service :
Fix Service :

FREQUENCY (kHz)	EMISSION	POWER (W)	UTC																								REMARK									
			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24										
Fix Service																																				
1	J3E	100																																		
2	J3E	100																																		
3																																				
4																																				
5																																				
6																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				
13																																				
14																																				
15																																				
16																																				
17																																				
18																																				
19																																				
20																																				
21																																				
22																																				
23																																				
24																																				
25																																				
26																																				
27																																				

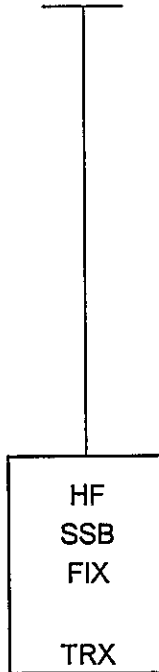


DRAWN BY AAB

APPROVED BY JICA

DATE	DRAWING TITLE	SHEET NO
July 03, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 250,000	SIKAKAP	
DIMENSION	DRAWING NO.	
Meter	S, R, O, P, - S, K, K, - 0, 5, 1, - 1	
PT. Aneka Asia Buana		


WHIP ANT



LEGEND

- ANT : ANTENNA
- FIX : FIX COMMUNICATION
- HF : HIGH FREQUENCY
- TRX : TRANSCEIVER (ING)

DRAWN BY AAB
APPROVED BY JICA
[Signature]

DATE	DRAWING TITLE	SHEET NO
July 27, 2001	SYSTEM BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	SIKAKAP	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, -, S, K, K, -, 0, 5, 1, -, 5,	
JICA -  PT. Aneka Asia Buana		

PLN LINE
AC 220V, 2W, 1Ø



TO HF SSB
TRX



DRAWN BY AAL

APPROVED BY JICA:

**

LEGEND

- AC : ALTERNATING CURRENT
- E/G : ENGINE GENERATOR
- KVA : KILO VOLT AMPERE
- V : VOLT
- W : WIRE
- Ø : PHASE

DATE July 27, 2001	DRAWING TITLE POWER BLOCK DIAGRAM	SHEET NO. 1/1
SCALE No Scale	SITE NAME SIKAKAP	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, S, K, K, -, 0, 5, 1, -, 6,	
 -  PT. Aneka Asia Buana		

**THE STUDY FOR
MARITIME TRAFFIC SAFETY SYSTEM DEVELOPMENT PLAN
IN THE REPUBLIC OF INDONESIA**

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

**2ND CLASS DISTRICT NAVIGATION AREA (7)
PALEMBANG**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

2nd Class District Navigation Area (7) Palembang

Table of Content

DISNAV	7	Palembang	2nd Class
SROP	52	Palembang	1st Class
	53	Jambi	3rd Class
	54	Muara Sabak	4th-A Class
	55	Muntok	4th-A Class
	56	Kuala Tungkal	4th-A Class
	57	Pangkalan Balam	4th-A Class
	58	Tg. Pandan	4th-A Class
	59	Nipah Panjang	4th-B Class
	60	Manggar	4th-B Class
	61	Sungai Selan	4th-B Class
	62	Blinyū	4th-B Class
	63	Sungai Lumpur	4th-B Class
	64	Toboali	4th-B Class

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

2nd Class District Navigation Office (Area-7) Palembang

Table of Content

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

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF DISNAV	SITE	PALEMBANG		
	CLASS	2nd	NO.	7

1. LOCATION				
Address	Tel.	Fax	Longitude	Latitude
Jl. Bilyu No. 9, Palembang	0711-714815		° ' "	° ' "

2. GENERAL CONDITIONS				
Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to PLB [Taking time: 1:00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	
By Car to Location [Taking time: 1:30 hr.]	<input checked="" type="checkbox"/> Paved	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Motel	
	<input type="checkbox"/> Unpaved road	<input type="checkbox"/> Light		
		<input type="checkbox"/> None		

3. CONDITIONS OF DISNAV OFFICE	Refer to attached drawing
---------------------------------------	---------------------------

3.1 Site Conditions			
Topography	Nature of Soil	Past disaster of site	Confirmation of existing system
<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Flood	Yes No
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Flood Tide	<input type="checkbox"/> <input checked="" type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rain Leakage	<input type="checkbox"/> <input checked="" type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay	<input type="checkbox"/> Ground Subsidence	<input type="checkbox"/> <input checked="" type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input type="checkbox"/> Sandy		<input type="checkbox"/> <input checked="" type="checkbox"/> Lightning system
Altitude	m	Telephone Lines	<input type="checkbox"/> <input checked="" type="checkbox"/> Feeder Cable Way
Land area	m ²	<input checked="" type="checkbox"/> 1 Lines	<input type="checkbox"/> <input checked="" type="checkbox"/> City water

3.2 Building Conditions		3.3 Power Source			
Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	Voltage	220 V	V	Good Bad	
Structure	Phase			<input type="checkbox"/> <input type="checkbox"/> Power Supply System	
Type of roof	Wire			<input type="checkbox"/> <input type="checkbox"/> Operations of E/G	
Type of ceiling	kVA			<input type="checkbox"/> <input type="checkbox"/> Operations of AVR	
Type of wall	Quality of PLN source		Capacity of fuel for engine		
Wall finish	Fluctuations	V ± %		Day tank	Liter
Flooring	Availability of power per day		Hours	Main tank	k Liter
Room Area (m ²)		Power interruption /month	Times	E/G Stand-by System	
Operation room	Total interpt. hours /month		Hours	<input type="checkbox"/> Single System	
E / G room	Max. interpt. hours at once		Hours	<input type="checkbox"/> Dual System	
Remark					

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS								
Actions taken in equipment failure												
Restoration flow				Chief								
Examples of major failure				Operator (skilled) ()								
Sufficiency of spares				Technician (skilled) ()								
Records of damages			Environmental Conditions		Administrator							
<input type="checkbox"/> Heavy rainfall			Good	Bad	Total							
<input type="checkbox"/> Storm			<input type="checkbox"/>	<input checked="" type="checkbox"/>					External noises			
<input type="checkbox"/> Lightning			<input type="checkbox"/>	<input checked="" type="checkbox"/>					Air pollution			
<input type="checkbox"/> Other calamity												
Institutional and Human Statuses					Training Record							
1 Budget	<input type="checkbox"/> Sufficient	<input type="checkbox"/> Reasonable	<input type="checkbox"/> Insufficient		Course	Class	Location	Period	Trainee			
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough									
3 Measuring eqpt./tools	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough									
4 Number of Operator	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough									
5 Number of Technician	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough									
6 Capability of Operator	<input type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable									
7 Capability of Technician	<input type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable									

SUMMARY OF DISNAV	SITE	PALEMBANG		
	CLASS	2nd	NO.	7

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	