

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

**3rd Class Coast Station
Biak
(Coast Station No. 216)**

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- 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	BIAK		
	CLASS	3rd	NO.	216

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX		0961-21128		136° 04' 36" E	01° 11' 10" S

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Biak [Taking time: 8.00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	
By Car	to Location [Taking time: 0.30 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
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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 checked="" type="checkbox"/>	<input 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 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 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		Voltage	380 V	380 V	Good Bad
Structure		Phase	3	3	<input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System
Type of roof		Wire	4	4	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of E/G
Type of ceiling		kVA	13.2	10	<input checked="" 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 (m²)		Power interruption /month		E/G Stand-by System	
Operation room	13.50	Total interpt. hours /month		Hours	<input checked="" type="checkbox"/> Single System
E / G room	2.25	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	T o t a l						
<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 COAST STATION	SITE	BIAK		
	CLASS	3rd	NO.	216

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: Biak

BIK-216- (1 / 5)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		MF/HF System	RH-16-3		Sailor	1996	PFKP Jakarta		Good
1		MF/HF Console	T2131		Sailor	1996	PFKP Jakarta		Good
2		MF/HF Equipment	T2131		Sailor	1996	PFKP Jakarta		Good
		600 W MF/HF Transmitter	N2171		Sailor	1996	PFKP Jakarta		Good
		601 W MF/HF Transmitter	N2171		Sailor	1996	PFKP Jakarta		Good
		AC Power Supply	AT2112		Sailor	1996	PFKP Jakarta		Good
		AC Power Supply	AT2112		Sailor	1996	PFKP Jakarta		Good
		Antenna Coupler	H2185		Sailor	1996	PFKP Jakarta		Good
		Antenna Coupler	H2185		Sailor	1996	PFKP Jakarta		Good
3		CW Unit							
		CW Unit							
		All Wave Receiver							
		Control Unit HF1	RE2100		Sailor	1996	PFKP Jakarta		Good
		Control Unit HF2	RE2100		Sailor	1996	PFKP Jakarta		Good
		Duplex Receiver	R2120T		Sailor	1996	PFKP Jakarta		Good
		Duplex Receiver	R2120T		Sailor	1996	PFKP Jakarta		Good
		Loudspeaker	H2054		Sailor	1996	PFKP Jakarta		Good
		Loudspeaker	H2054		Sailor	1996	PFKP Jakarta		Good
4		Spot Receiver							
		MF/HF DSC W/K RX	RM2150		Sailor	1996	PFKP Jakarta		Good
		Power Supply	N2165		Sailor	1996	PFKP Jakarta		Good
5		Terminal Unit (DSC VHF/HF)							
		DSC System	TT-6200A		Sailor	1996	PFKP Jakarta		Good
		LAN	TT-101064		Sailor	1996	PFKP Jakarta		Good
		LAN I/O	TT-101065		Sailor	1996	PFKP Jakarta		Good
		CPU	TT-101051		Sailor	1996	PFKP Jakarta		Good
		CPU I/O	TT-10123		Sailor	1996	PFKP Jakarta		Good
		Paralel	TT-101190		Sailor	1996	PFKP Jakarta		Good
		Paralel I/O	TT-101217		Sailor	1996	PFKP Jakarta		Good
		VHF Modem	TT-102239		Sailor	1996	PFKP Jakarta		Good

INVENTORY

Site Name: Biak

BIK-216- (2/5)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
		HF Modem	TT-1022337		Sailor	1996	PFKP Jakarta		Good
		Modem I/O	TT-102238		Sailor	1996	PFKP Jakarta		Good
		Modem I/O	TT-102238		Sailor	1996	PFKP Jakarta		Good
		Alarm I/O	TT-101242		Sailor	1996	PFKP Jakarta		Good
		Power Supply	TT-101122		Sailor	1996	PFKP Jakarta		Good
		Power Input	TT-101241		Sailor	1996	PFKP Jakarta		Good
		DSC Op. Position Term./PC							
		1) Personal Computer	Proline 466		Compaq	1996	PFKP Jakarta		Good
		2) Monitor	140		Compaq	1996	PFKP Jakarta		Good
		Printer (H-1252A)	TT-1608C		Sailor	1996	PFKP Jakarta		Good
		Monitor Display	TT-3602B		Sailor	1996	PFKP Jakarta		Good
		DSC Alarm	TT-1542B		Sailor	1996	PFKP Jakarta		Good
6		Signal Control Panel							
		Audio/Digital Matrix	MTX-1616		Sailor	1996	PFKP Jakarta		Good
		Keyer	KK-1		Sailor	1996	PFKP Jakarta		Good
		Loudspeaker	H2054		Sailor	1996	PFKP Jakarta		Good
		Loudspeaker	H2054		Sailor	1996	PFKP Jakarta		Good
		Telephone Repeater (Phone Patch)							
		Radio/Tel I/F Unit	RTU-282		Sailor	1996	PFKP Jakarta		Good
		ARQ Equipment							
		Radiotelex Modem	TT-1585E		Sailor	1996	PFKP Jakarta		Good
		ARQ Key Board	TT-1601 A		Sailor	1996	PFKP Jakarta		Good
		Printer (H1252A)	TT-1680C		Sailor	1996	PFKP Jakarta		Good
		Telex Alarm	TT-1542B		Sailor	1996	PFKP Jakarta		Good
1-2		VHF System							
1		Operation Console	RH-16-1		Sailor	1996	PFKP Jakarta		Good
2		Multichannel VHF Transceiver							
		VHF Transceiver	RT 2048		Sailor	1996	PFKP Jakarta		Good
		VHF Transceiver	RT 2048		Sailor	1996	PFKP Jakarta		Good
		VHF Transceiver	RT 2048		Sailor	1996	PFKP Jakarta		Good
		VHF Transceiver	RT 2048		Sailor	1996	PFKP Jakarta		Good
		Linier Power Amplifier	A2080BE-H		Sailor	1996	PFKP Jakarta		Good
		Linier Power Amplifier	A2080BE-H		Sailor	1996	PFKP Jakarta		Good

Jayapura

INVENTORY

Site Name: Biak

BIK-216- (3 / 5)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
2		Linier Power Amplifier Linier Power Amplifier Duplex Filter Duplex Filter CH-70 VHF T/R VHF Transceiver High Low I/F Unit (2) RF Power Amplifier AC Power Supply DC Power Supply AC Power Supply Term.Equipt. (DSC VHF/HF) Audio/Digital Matrix Telephone Repeater Radio/Tel I/F Unit	A2080BE-H A2080BE-H RT2048 A2080BE-H NI163S N420 PSF-1 MTX-1616 RTU-280		Sailor Sailor Sailor Sailor Sailor Sailor Sailor Sailor Sailor Sailor Sailor Sailor	1996 1996 1996 1996 1996 1996 1996 1996 1996 1996 1996 1996	PFKP Jakarta PFKP Jakarta PFKP Jakarta PFKP Jakarta PFKP Jakarta PFKP Jakarta PFKP Jakarta PFKP Jakarta PFKP Jakarta PFKP Jakarta PFKP Jakarta PFKP Jakarta		Good Good Good Good Good Good Good Good Good Good Good
3		Term.Equipt. (DSC VHF/HF)			Sailor	1996	PFKP Jakarta		Good
4		Telephone Repeater			Sailor	1996	PFKP Jakarta		Good
2		Tower & Antenna System							
2-1		Tower & Mast							
1		30mH Self Supporting Structure			Sailor	1996	PFKP Jakarta		Good
2		20mH Self Supporting Structure			Sailor	1996	PFKP Jakarta		Good
3		Lightning Protector			Sailor	1996	PFKP Jakarta		Good
4		Lightning Protector			Sailor	1996	PFKP Jakarta		Good
5		Grounding			Sailor	1996	PFKP Jakarta		Good
6		Grounding			Sailor	1996	PFKP Jakarta		Good
2-2		Antenna System							
1		T Type Antenna TX (1)			Sailor	1996	PFKP Jakarta		Good
2		Inverted L Antenna TX (2)			Sailor	1996	PFKP Jakarta		Good
3		D/D Antenna (1)			Sailor	1996	PFKP Jakarta		Good
4		VHF Antenna (3)			Sailor	1996	PFKP Jakarta		Good
2-3		Antenna Selector							
1		Antenna Distributor			Sailor	1996	PFKP Jakarta		Good

INVENTORY

Site Name: Biak

BIK-216- (4 / 5)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3		Power Supply Equipment Power Distribution Board 7.5kVA PDB 10 kVA Control Panel (AMF) Isolation Transformer 7.5kVA, 4W, 3P Step-Up Transformer 9.9kVA, 4W, 3P UPS & AVR AVR : 7.5kVA, 4W, 3P Engine Generator 10 kVA E/G Single Standby System	PL 95-7s IST 10P3 STU 10P3 AVR7P3 EG 10 RA V-1505E BCI-164-D			1996 1996 1996 1996 1996 1996 1996 1996 1996 1996 1996 1996	PFKP Jakarta PFKP Jakarta PFKP Jakarta PFKP Jakarta PFKP Jakarta PFKP Jakarta PFKP Jakarta PFKP Jakarta PFKP Jakarta PFKP Jakarta PFKP Jakarta PFKP Jakarta		Good Good Good Good Good Good Good Good Good Good Good Good
4		Fuel System Starting, Fuel, Exhaust System Fuel Control Unit 100 L Fuel Day Tank 1000 L Fuel Storage Tank			Sailor	1996	PFKP Jakarta		Good
4		Measuring Equipment Analog Oscilloscope Probe/Lead (2) Power Cable (1) Black Cover (1) Operation Manual Fluke 87 Multimeter (3) Test Lead Set (3x1) Hoester House Yellow (3x1) User Manual (3x2) Insulation Tester Line Probe (1)	PM3065 2406A		Sailor Sailor Sailor	1996 1996 1996	PFKP Jakarta PFKP Jakarta PFKP Jakarta		Good Good Good Good

INVENTORY

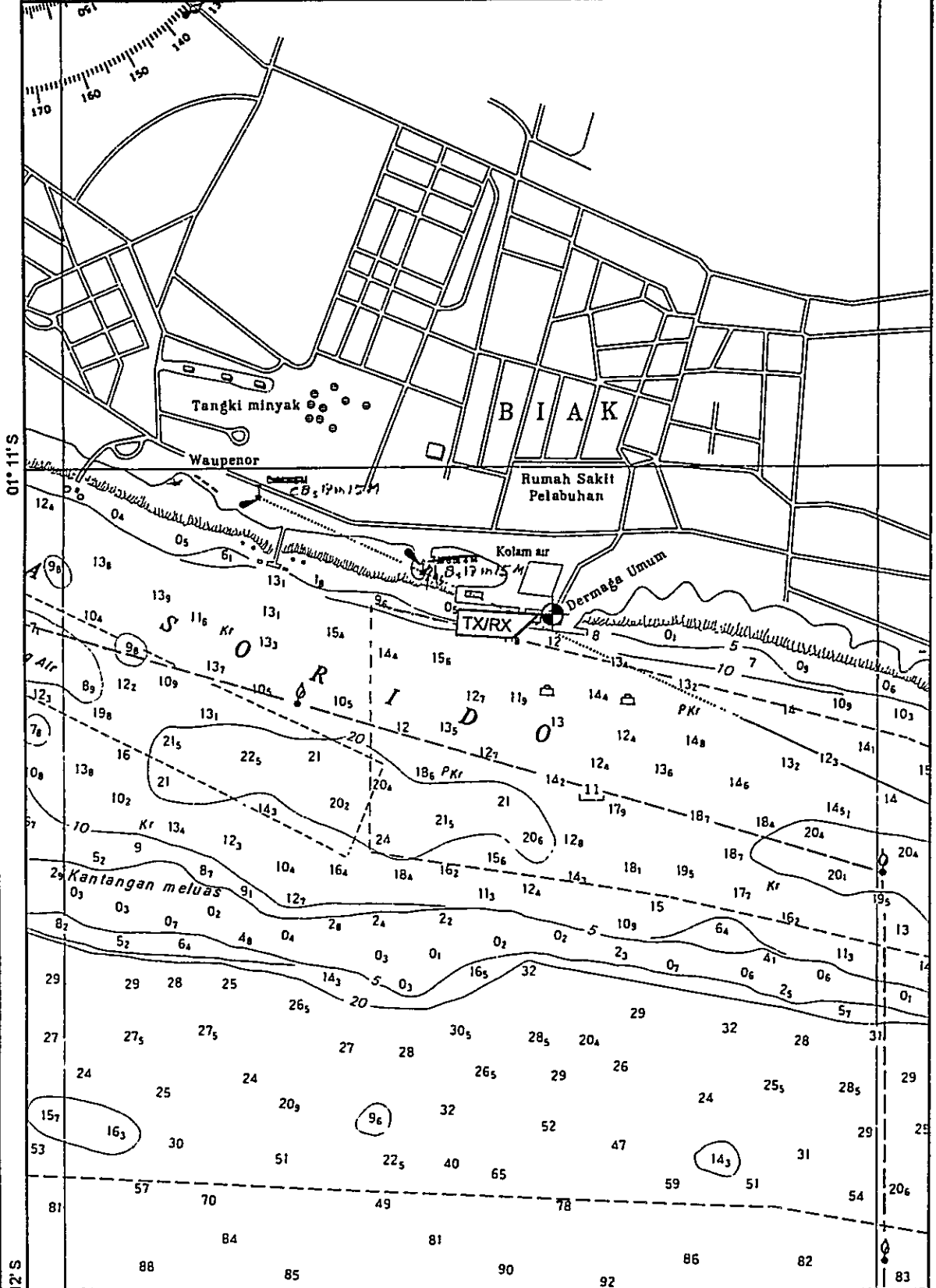
Site Name: Biak

BIK-216- (5 / 5)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
4		Earth Probe (1) Carrying Case x1) Instruction Manual (1) RF Coaxial Load Resistor (2) Connection Cable (1)	8201		Sailor	1996	PFKP Jakarta		Good
5		Others							
1		Telephone set with call timer (2)			Sailor	1996	PFKP Jakarta		Good
2		Headset (2)	DM 811		Sailor	1996	PFKP Jakarta		Good
3		Hand set (6)			Sailor	1996	PFKP Jakarta		Good
4		Desk Microphone (2)	DM 6500		Sailor	1996	PFKP Jakarta		Good
5		Morse Key			Sailor	1996	PFKP Jakarta		Good
6		Quartz Clock			Sailor	1996	PFKP Jakarta		Good
7		Services Engineers Kit			Sailor	1996	PFKP Jakarta		Good
8		Mouse	RS 541-365		Sailor	1996	PFKP Jakarta		Good
9		Chair			Sailor	1996	PFKP Jakarta		Good

136° 04' E

136° 05' E



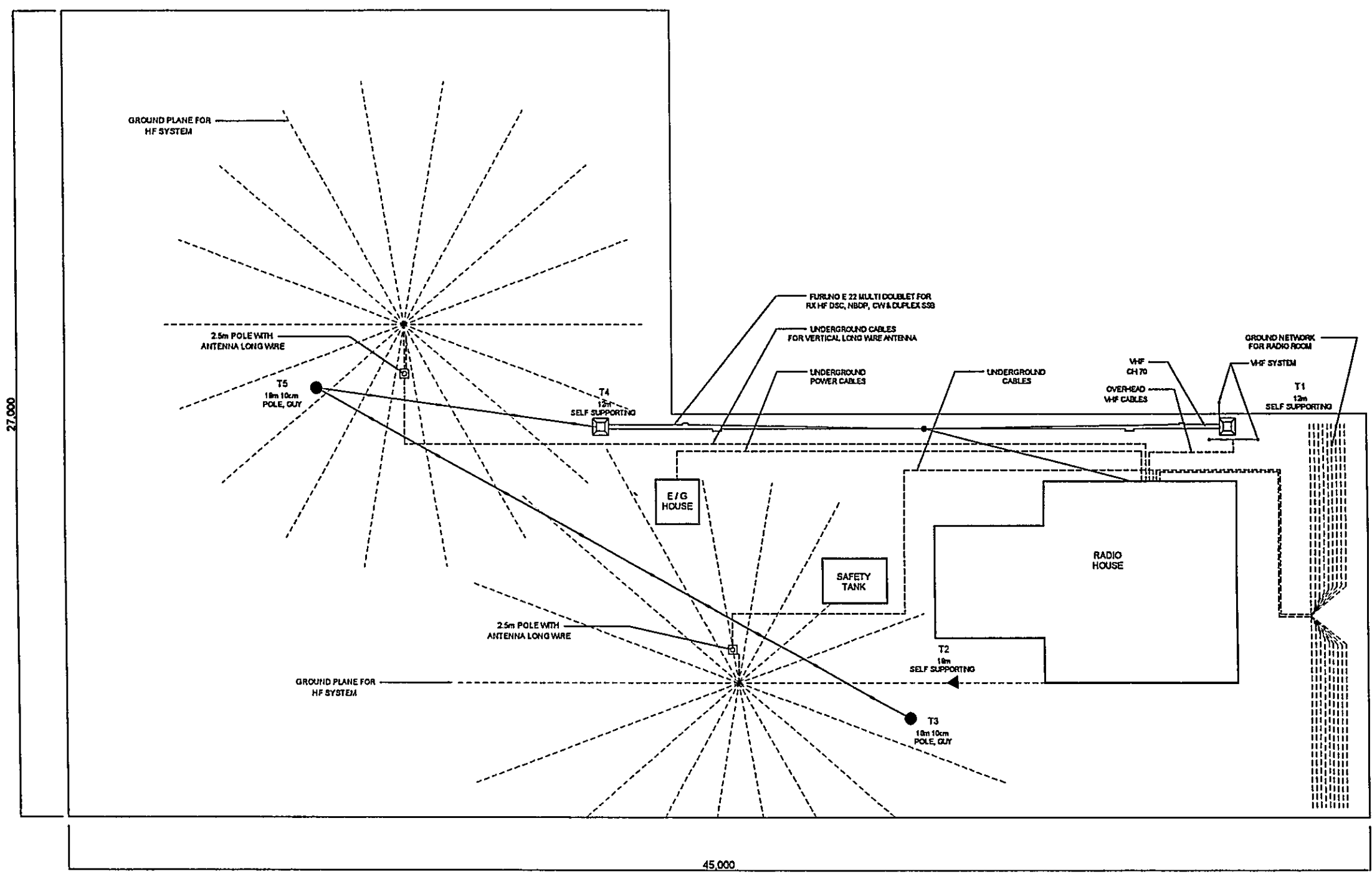
APPROVED BY JICA
 DRAWN BY AAEI

01° 11' S

01° 12' S

157

DATE	DRAWING TITLE	SHEET NO
July 13, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 12,500	BIAK	
DIMENSION	DRAWING NO.	
Meter	S.R.O.P. - B.I.K. - 2.1.6 - 1	
- PT. Aneka Asia Buana		

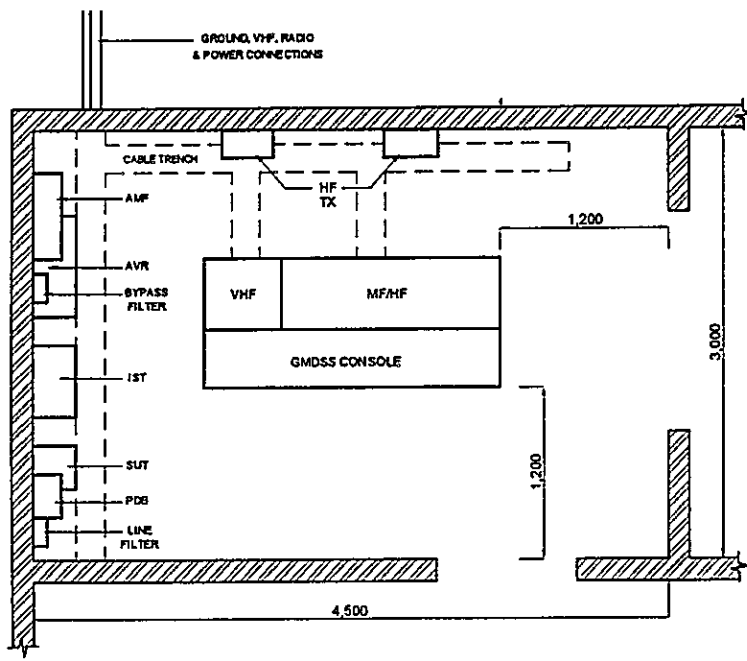


27,000

45,000

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

DATE	Sept 12, 2001	DRAWING TITLE	ANTENNA LAYOUT	SHEET NO.	1/1
SCALE	1:150	SITE NAME	BIAK		
DIMENSION	Millimeter	DRAWING NO.	S, R, O, P, - B, I, K, - 2, 1, 6, - 2		

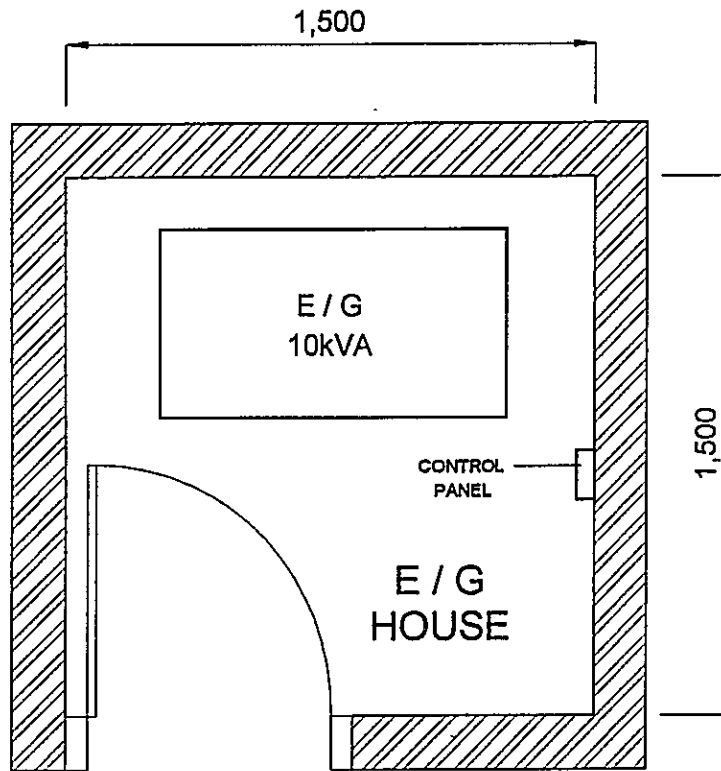


LEGEND

- AVR AUTOMATIC VOLTAGE REGULATOR
- HF HIGH FREQUENCY
- IST ISOLATION FREQUENCY
- MF MEDIUM FREQUENCY
- SUT STEP UP TRANSFORMER
- TX TRANSMITTER (ING)
- PDB POWER DISTRIBUTION BOARD

DATE	DRAWING TITLE	SHEET NO
Sept 12, 2001	EQUIPMENT FLOOR LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 50	BIAK	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, -, B, I, K, -, 2, 1, 6, -, 3,	
- PT. Aneka Asia Buana		

DRAWN BY AAG
 APPROVED BY JICA

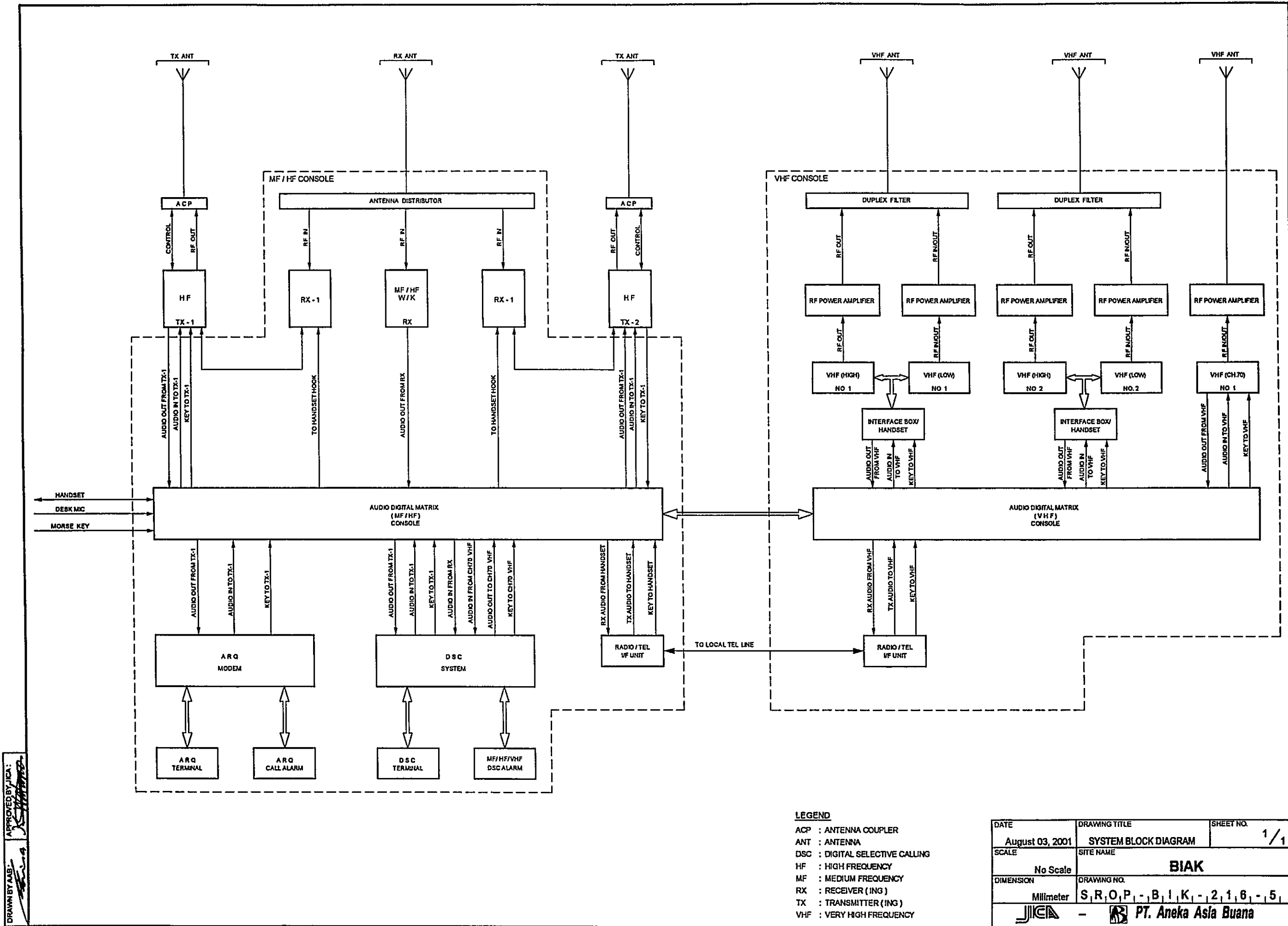


DRAWN BY: [Signature]
 APPROVED BY: JICA [Signature]

LEGEND

E/G : ENGINE GENERATOR
 KVA : KILO VOLT AMPERE

DATE	DRAWING TITLE	SHEET NO
Sept 12, 2001	E/G FLOOR LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 20	BIAK	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, - B, I, K, - 2, 1, 6, - 4, 1	
- PT. Aneka Asia Buana		

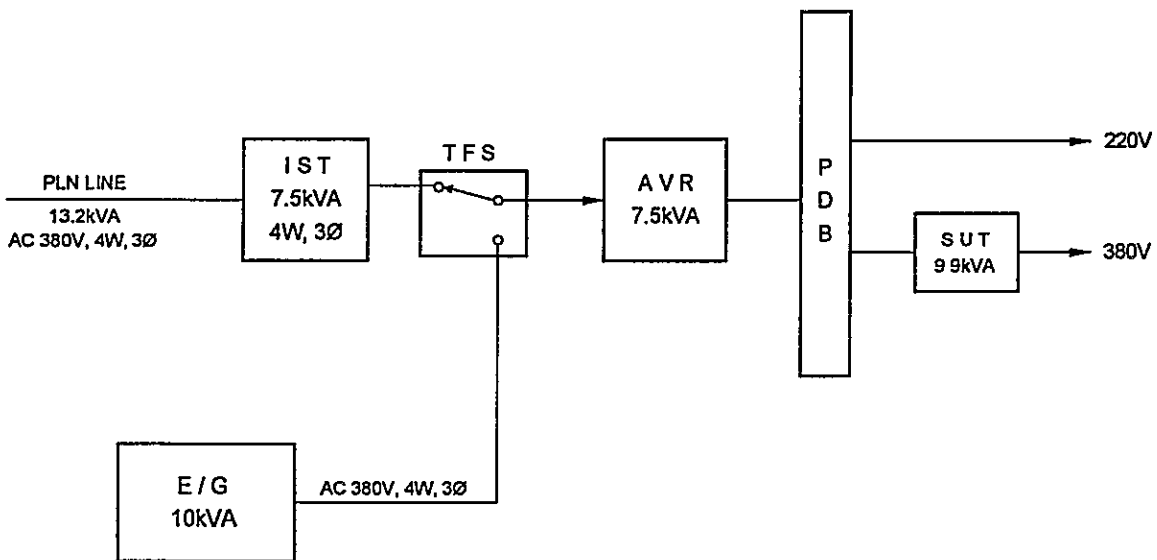


DRAWN BY AAS: *[Signature]*
 APPROVED BY JICA: *[Signature]*

LEGEND

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

DATE	DRAWING TITLE	SHEET NO.
August 03, 2001	SYSTEM BLOCK DIAGRAM	1/1
SCALE	SITE NAME	
No Scale	BIAK	
DIMENSION	DRAWING NO.	
Millimeter	S, R, O, P, - B, I, K, - 2, 1, 6, - 5	
PT. Aneka Asia Buana		



LEGEND

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

APPROVED BY JICA
 DRAWN BY AAB

DATE August 03, 2001	DRAWING TITLE SYSTEM BLOCK DIAGRAM	SHEET NO 1/1
SCALE No Scale	SITE NAME BIAK	
DIMENSION Milimeter	DRAWING NO S, R, O, P, - B, I, K, - 2, 1, 6, - 6,	
- PT. Aneka Asia Buana		

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

**4th-A Class Coast Station
Serui
(Coast Station No. 217)**

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	SERUI		
	CLASS	4th-A	NO.	217

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. St. Rumbewas	31590		136° 14' 27" E	01° 53' 12" S

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Biak [Taking time: 8.00 hr.]	<input type="checkbox"/> Highway	<input checked="" type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	28,408
By Air	to Serui [Taking time: 0.20 hr.]	<input checked="" type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input type="checkbox"/> Motel	
By Car	to Location [Taking time: 0.10 hr.]	<input type="checkbox"/> Unpaved road	<input type="checkbox"/> Light	<input checked="" type="checkbox"/> Hotel/Losmen	
			<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	12.00 M		Telephone Lines	<input checked="" type="checkbox"/>	<input type="checkbox"/> Feeder Cable Way
Land area	1,000 m ²		<input checked="" type="checkbox"/> 1 Lines	<input checked="" type="checkbox"/>	<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"/> <input type="checkbox"/> Power Supply System
Type of roof	Ardex	Wire	2	2	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of E/G
Type of ceiling	Triplex	kVA	3.5	3	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of AVR
Type of wall	Stone	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	7 Liter
Room Area (m ²)		Power interruption /month	4 Times	E/G Stand-by System	
Operation room	12.50	Total interpt. hours /month	15 Hours	<input type="checkbox"/> Single System	
E / G room	20.00	Max. interpt. hours at once	18 Hours	<input checked="" type="checkbox"/> Dual System	
Remark					

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure								
Restoration flow	Transmitter equipment damaged			Chief	1			
Examples of major failure	Power Amplifier			Operator (skilled)	1 (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"/> External noises	T o t a l				
<input checked="" type="checkbox"/> Lightning	Transceiver Icom		<input checked="" 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	Sarcom		Jakarta	1999	
3 Measuring eqpt./tools	<input type="checkbox"/> Enough	<input checked="" type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough	Oru		Jakarta	1995	1
4 Number of Operator	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough	Technician	TTP-III	Jakarta	1990	1
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 type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input checked="" type="checkbox"/> Not capable					

SUMMARY OF COAST STATION	SITE	SERUI		
	CLASS	4th-A	NO.	217

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 additional operator/technician Request for training operator, because to support the sophisticated communications facility, it must be with high capability operator.
Remarks	

INVENTORY

Site Name: Serui

SRI-217- (1 / 2)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		Transmitter							
1		SSB Transceiver	IC-M700	01280	ICOM		-	Relocation	Good
2		SSB Transceiver	IC-M700	5895	ICOM		-	Relocation	Damaged
3		FM Transceiver	TM-261A	90302209	Kenwood		-	Relocation	Good
2		Tower & Antenna System							
2-1		Tower & Mast							
		TX Station							
1		Antenna Pipe	L				-	Relocation	Good
2		Antenna Pipe	T				-	Relocation	Good
3		Antenna FM Transceiver	V2S		Japan	1997	-	Relocation	Good
4		Antenna Pipe VHF 2"	T			1997	-	Relocation	Good
2-2		Antenna Switch							
1		Ant Multicoupler for I/L (RX)							
2		Antenna Distributor	AAD-10/1/A-J1-6C	001002	JRC	1996	-	Relocation	Good
3		Automatic Antenna Tuner	AT-120		Japan		-	Relocation	Good
2-3		Antenna Tuner							
		Antenna Tuner	CNW-420		Daiwa		-	Relocation	Good
		Antenna Matching Unit							
1		Antenna Matcher	MN-100		ICOM		-	Relocation	Good
3		Power Supply Equipment							
3-1		UPS & AVR System							
1		DC Power Supply	PS-8930	183027	VEDIO		-	Relocation	Good
2		DC Power Supply	SP-3500		Swallow		-	Relocation	Good
3		DC Power Supply	GT-3200		Mirusa		-	Relocation	Good
4		AC AVR	STAVOL 500N		M'naga		-	Relocation	Good
5		Battery Charger Eveready	TP-453		Japan		-	Relocation	Good
6		Battery Charger DELTA	SM-245D	209610	Japan		-	Relocation	Good
7		Battery Charger DELTA			Japan		-	Relocation	50% Good

INVENTORY

Site Name: Serui

SRI-217- (2 / 2)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3-2		Engine Generator							
1		Engine	TS-60	17027	Yanmar	1981	-	Relocation	Not Used
2		Engine	TF65H-di	6550382	Yanmar	1996	-	Relocation	Good
3		Generator	YKG3	877	Yanmar	1981	-	Relocation	Not Used
4		Generator	FA-3	467322	Yanmar	1996	-	Relocation	Good
4		Measuring Equipment							
1		Multitester	SP-20D				-	Relocation	Damage
2		Multitester	SP-20D				-	Relocation	Good
5		Others							
1		Fan 12"	F-301FH	1A03	Japan	1984	-	Relocation	70% Good
2		Fan	1200		Japan	1997	-	Relocation	Good
3		Air Conditioner	Split		Sanyo	1997	-	Relocation	Not used
4		Typewriter	8100		Japan	1997	-	Relocation	Good
5		Typewriter 12"	F-301FH	1A03	Japan	1981	-	Relocation	Not used
6		Lightening Rod				1982	-	Relocation	Good
7		Tool Set	615		Diamond	1984	-	Relocation	60% Good
8		Tool Set	615		Diamond	1999	-	Routine	Good
		Soldering Tool 600 Watt			Heles	1990	-	Relocation	Good

STATUS OF TROUBLES

SITE NAME : SERUI

SRI-217-(1/1)

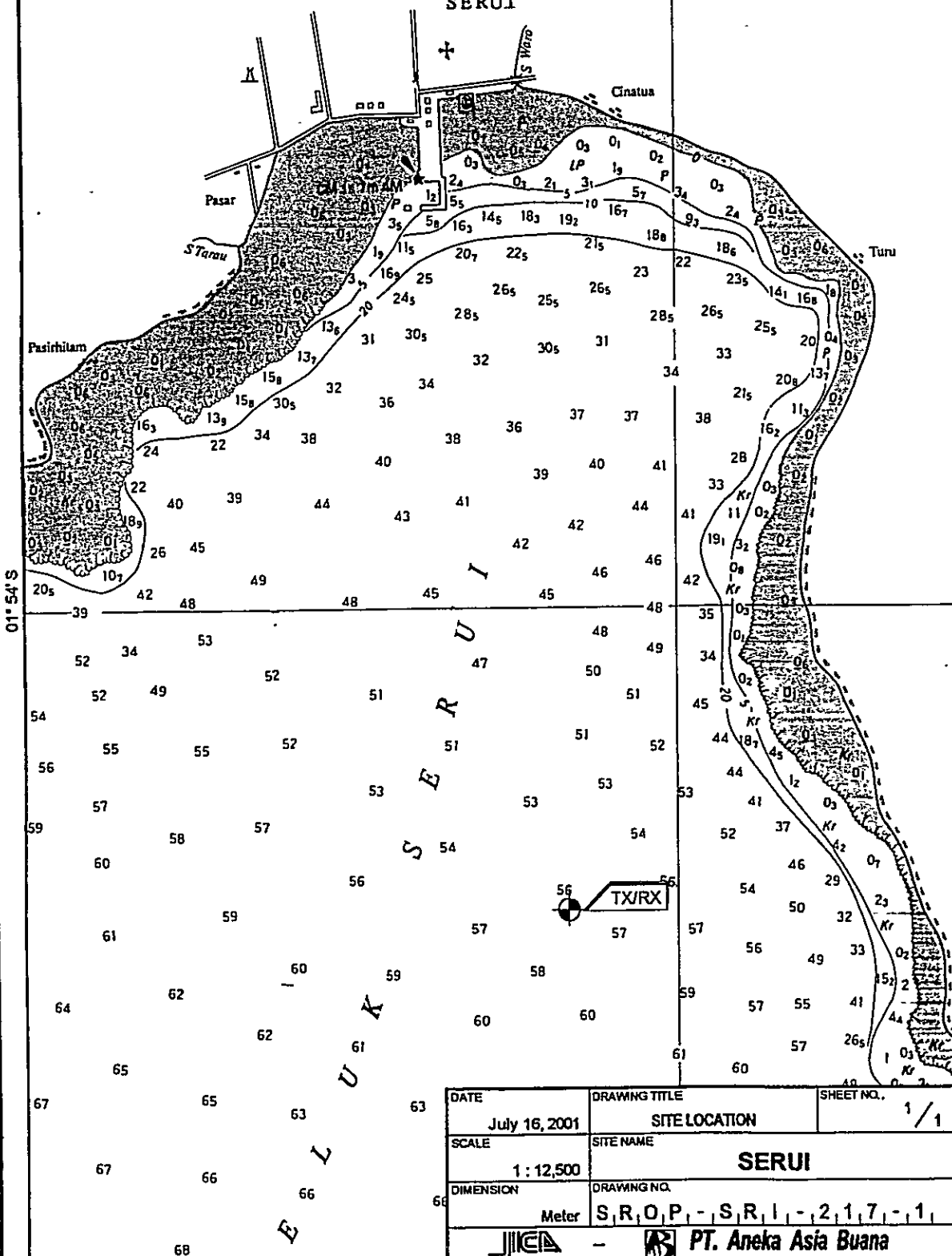
Item / Equipment	Transceiver/icom / IC-M700		
Manufacturer	Japan		
Manufacturer in year	1993		
Defective panel / unit	Power Amplifier		
Details of Trouble Status	Cause doe to:	Urgency of Repair	
	<input type="checkbox"/> Aging		
	<input checked="" type="checkbox"/> Lighting		
	<input type="checkbox"/> Corrosion		
	<input type="checkbox"/> Lack of Spares		
<input type="checkbox"/> Others	Repairing to be:		
<input checked="" 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>			
No capable technician for repairing equipment, therefore it must be sent to main Coast Station Un-available spare part Un-available repairing budget Coast Station Class-1 must be completed by 3 - 4 capable technicians Training for operator and technician			

136° 15' E

N A R W A

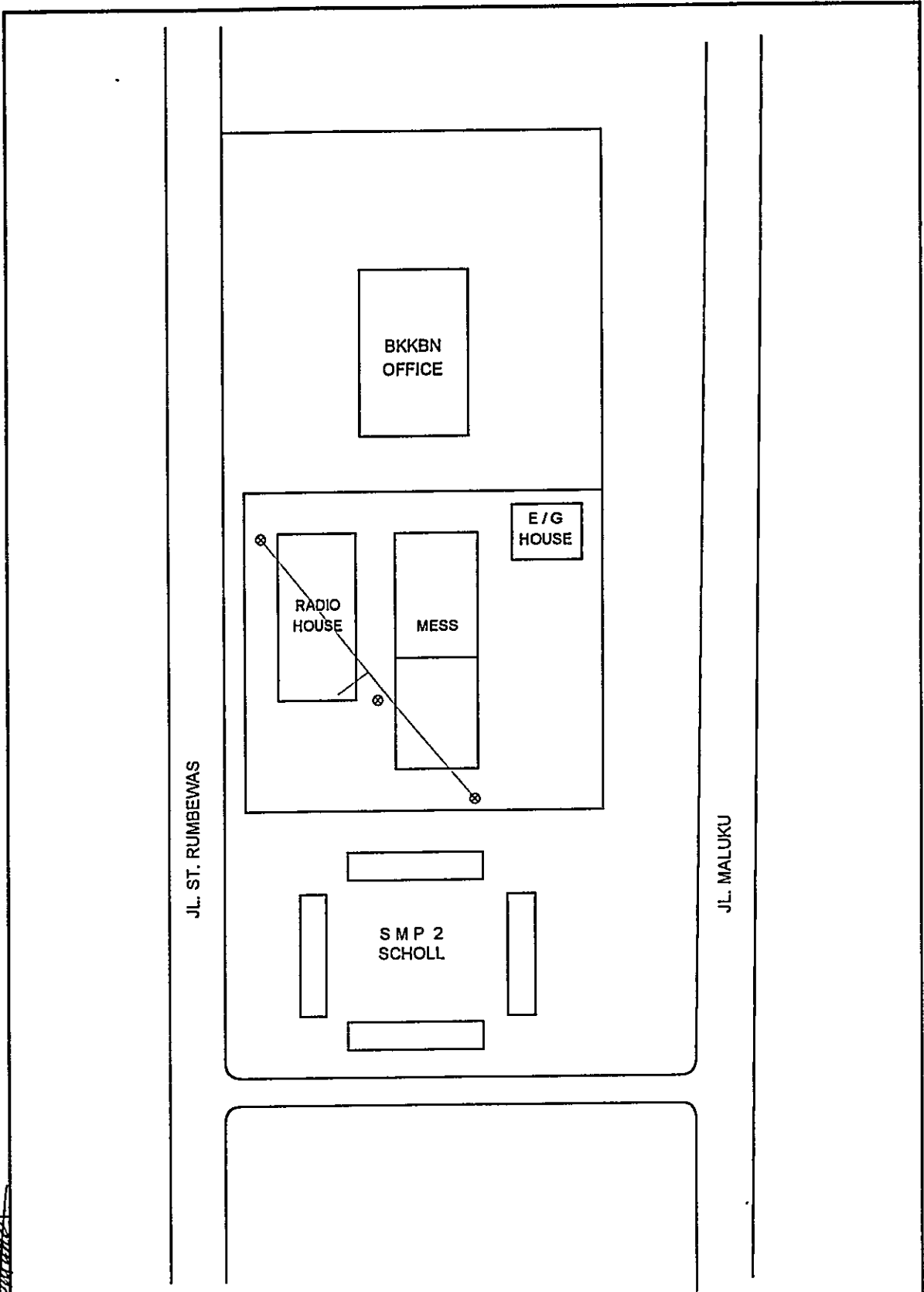


SERUI



APPROVED BY JICA:
 DRAWN BY AAB:

DATE	DRAWING TITLE	SHEET NO.
July 16, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 12,500	SERUI	
DIMENSION	DRAWING NO.	
Meter	S R O P - S R I - 2 1 7 - 1	
JICA		PT. Aneka Asia Buana



DRAWN BY AAR
 APPROVED BY JICA

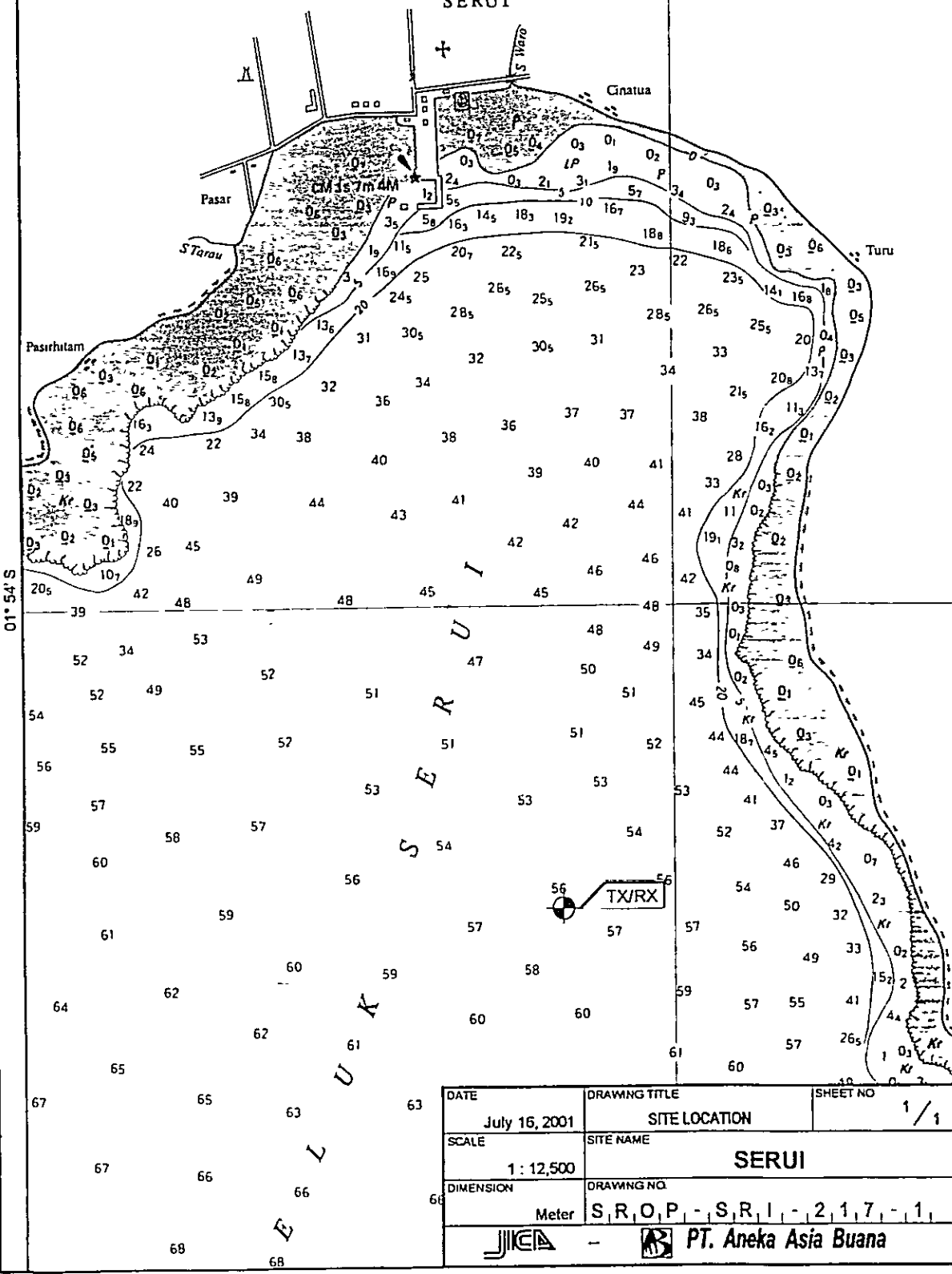
DATE August 03, 2001	DRAWING TITLE ANTENNA LAYOUT	SHEET NO 1/1
SCALE 1 : 400	SITE NAME SERUI	
DIMENSION Millimeter	DRAWING NO. S, R, O, P, -, S, R, I, -, 2, 1, 7, -, 2,	
- PT. Aneka Asia Buana		

136° 15' E

N A R W A



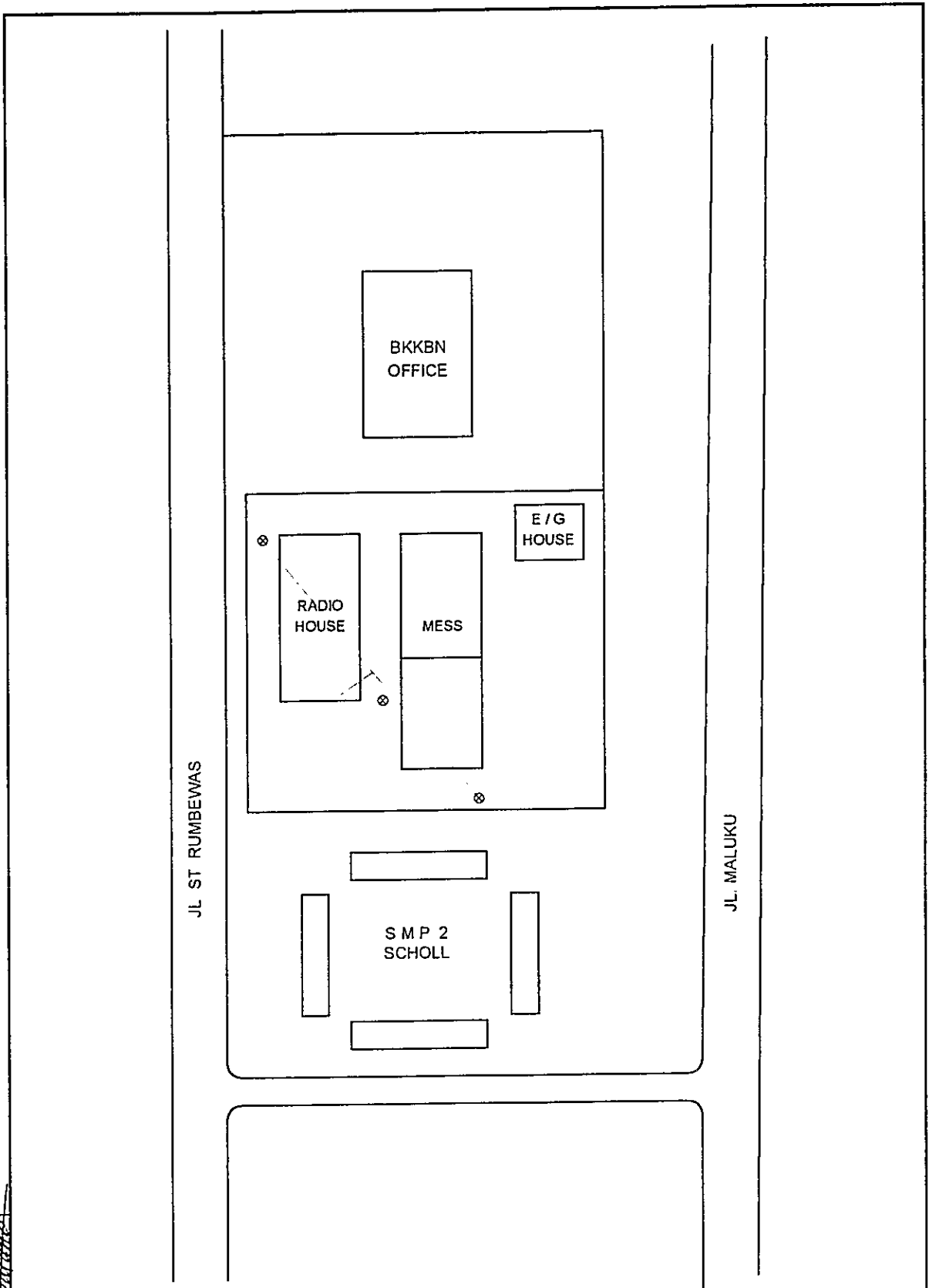
SERUI



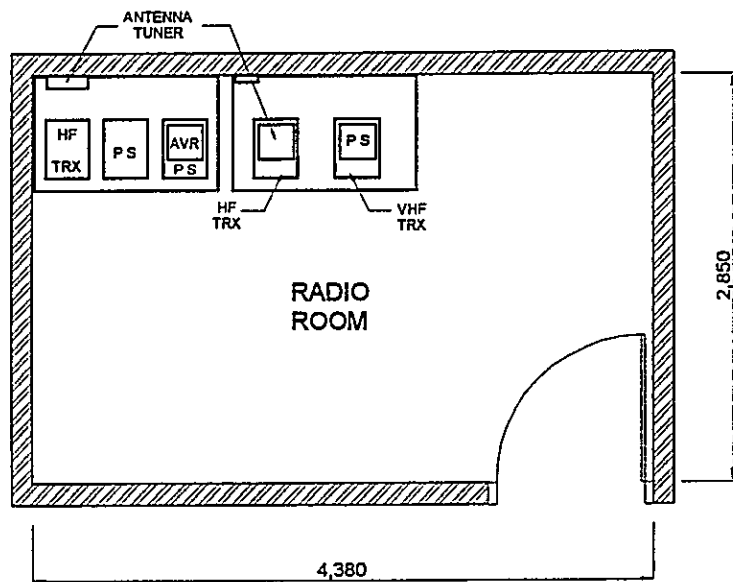
APPROVED BY JICA
 DRAWN BY AAB

DATE	DRAWING TITLE	SHEET NO
July 16, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 12,500	SERUI	
DIMENSION	DRAWING NO.	
Meter	S.R.O.P - S.R.I - 2.1.7 - 1.1	

APPROVED BY JICA
[Signature]
 DRAWN BY A.A.E.
[Signature]



DATE	DRAWING TITLE	SHEET NO
August 03, 2001	ANTENNA LAYOUT	1 / 1
SCALE	SITE NAME	
1 400	SERUI	
DIMENSION	DRAWING NO	
Millimeter	S R O P - S R I - 2 1 7 - 2	
- PT. Aneka Asia Buana		

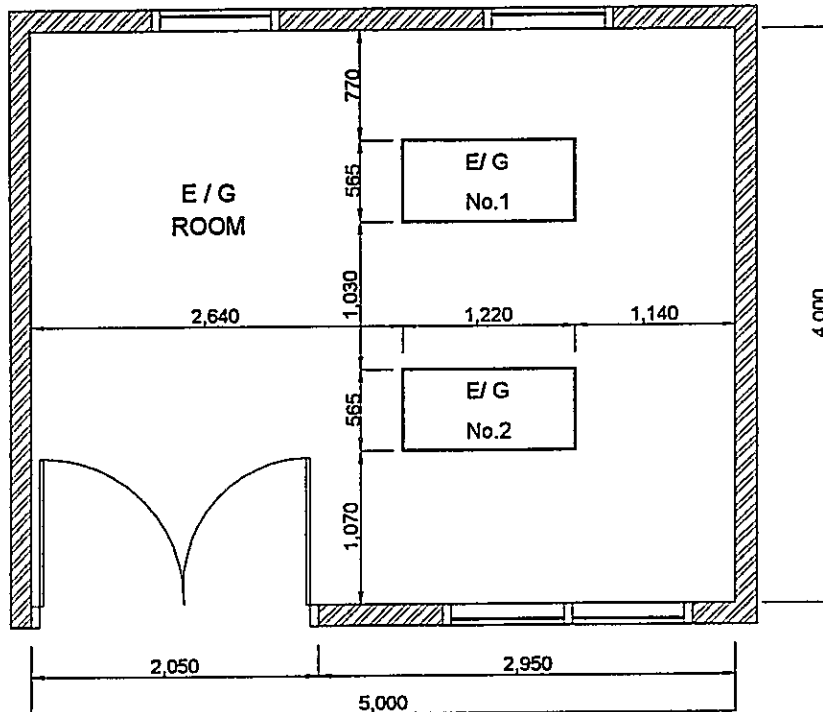


APPROVED BY JICA
[Signature]
 DRAWN BY *[Signature]*

LEGEND

- AVR AUTOMATIC VOLTAGE REGULATOR
- HF HIGH FREQUENCY
- PSU POWER SUPPLY UNIT
- TRX TRANSCEIVER (ING)
- VHF VERY HIGH FREQUENCY



DATE	DRAWING TITLE	SHEET NO
Sept 10, 2001	EQUIPMENT FLOOR LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 50	SERUI	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, -, S, R, I, -, 2, 1, 7, -, 3,	
	PT. Aneka Asia Buana	

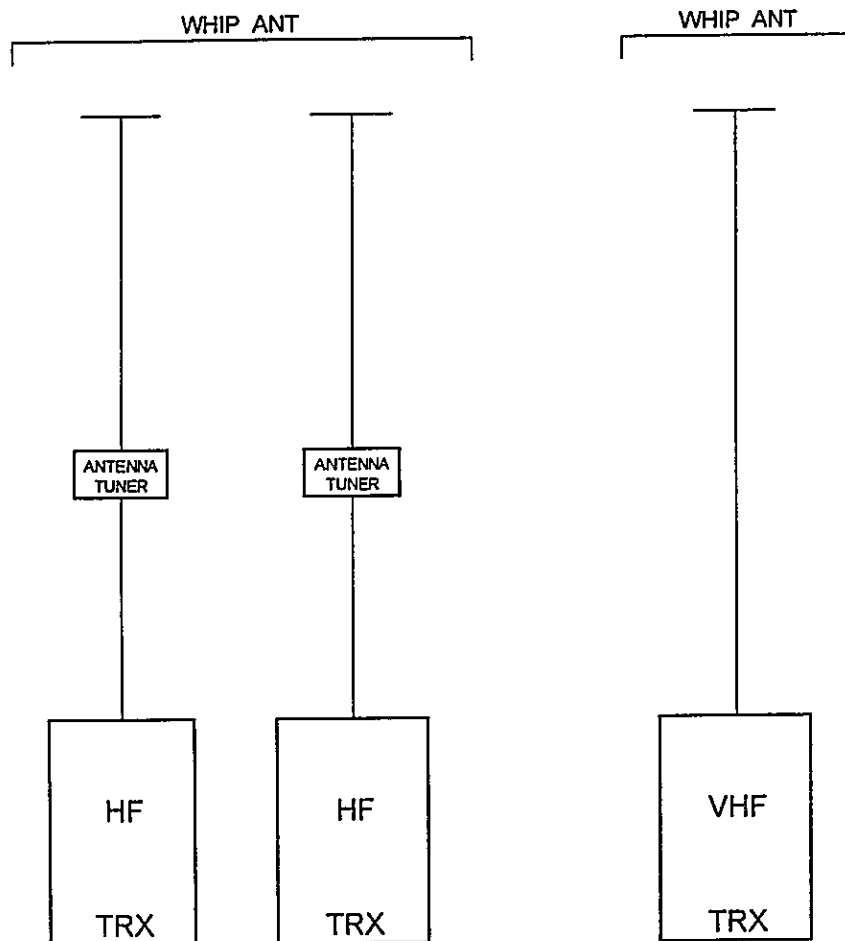


LEGEND

E/G : ENGINE GENERATOR

DRAWN BY JAS
APPROVED BY JICA



DATE Sept 10, 2001	DRAWING TITLE E/G FLOOR LAYOUT	SHEET NO 1 / 1
SCALE 1 : 50	SITE NAME SERUI	
DIMENSION Milimeter	DRAWING NO. S, R, O, P - S, R, I - 2, 1, 7 - 4	
		 PT. Aneka Asia Buana

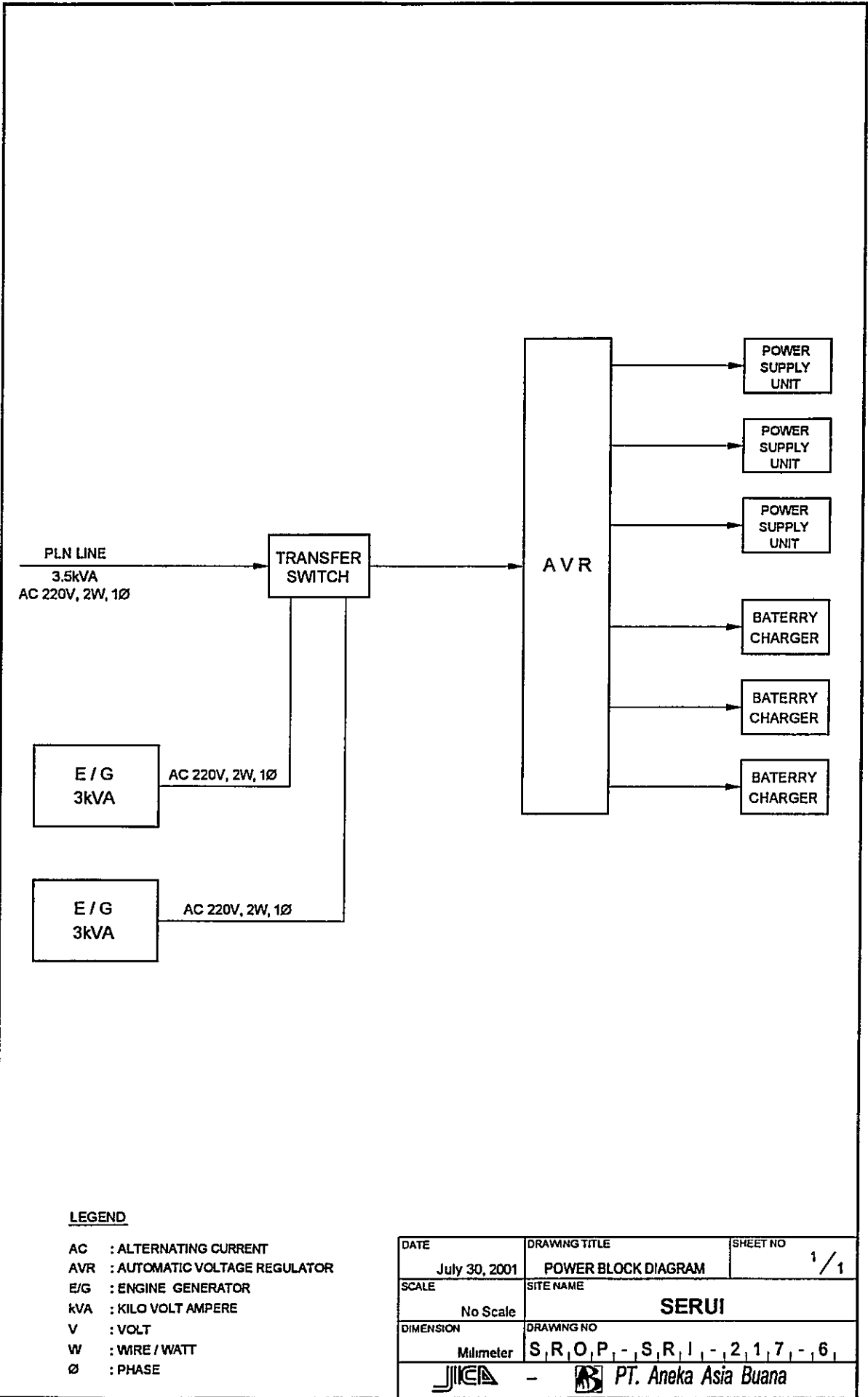


LEGEND

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

APPROVED BY JICA
 DRAWN BY A.A.P.

DATE	DRAWING TITLE	SHEET NO.
August 03, 2001	SYSTEM BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	SERUI	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P - S, R, I - 2, 1, 7 - 5	
 -  PT. Aneka Asia Buana		



LEGEND

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

DRAWN BY: JMB. APPROVED BY: JICA.

DATE	DRAWING TITLE	SHEET NO
July 30, 2001	POWER BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	SERUI	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, - S, R, I, - 2, 1, 7, - 6,	
- PT. Aneka Asia Buana		

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

**4th-A Class Coast Station
Sarmi
(Coast Station No. 218)**

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	SARMI		
	CLASS	4th-A	NO.	218

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Brasildi No. 6	966-31055		138° 45' 10" E	01° 51' 20" S

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Jayapura [Taking time: 10.00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	9,800
By Car	to Location [Taking time: 4.00 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 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 type="checkbox"/>	<input checked="" type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input checked="" type="checkbox"/> Sandy		<input checked="" type="checkbox"/> Tide	<input type="checkbox"/>	<input checked="" type="checkbox"/> Lightning system
Altitude	3.00 M		Telephone Lines	<input type="checkbox"/>	<input checked="" type="checkbox"/> Feeder Cable Way
Land area	1,050 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	One	Voltage	220 V	V	Good Bad	
Structure	Concrete	Phase	1	3	<input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System	
Type of roof	Ardex	Wire	2	4	<input type="checkbox"/> <input type="checkbox"/> Operations of E/G	
Type of ceiling	Triplex	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	2.7 Liter
Flooring	Ceramic	Availability of power per day	24 Hours	Main tank	k Liter	
Room Area (m ²)		Power interruption /month	5 Times	E/G Stand-by System		
Operation room	27.50	Total interpt. hours /month	96 Hours	<input type="checkbox"/>	Single System	
E / G room	20.00	Max. interpt. hours at once	24 Hours	<input type="checkbox"/>	Dual System	
Remark						

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS					
Actions taken in equipment failure									
Restoration flow				Chief			1		
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		1		
<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	Operator	Oru	Surabaya	1999	80	
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						

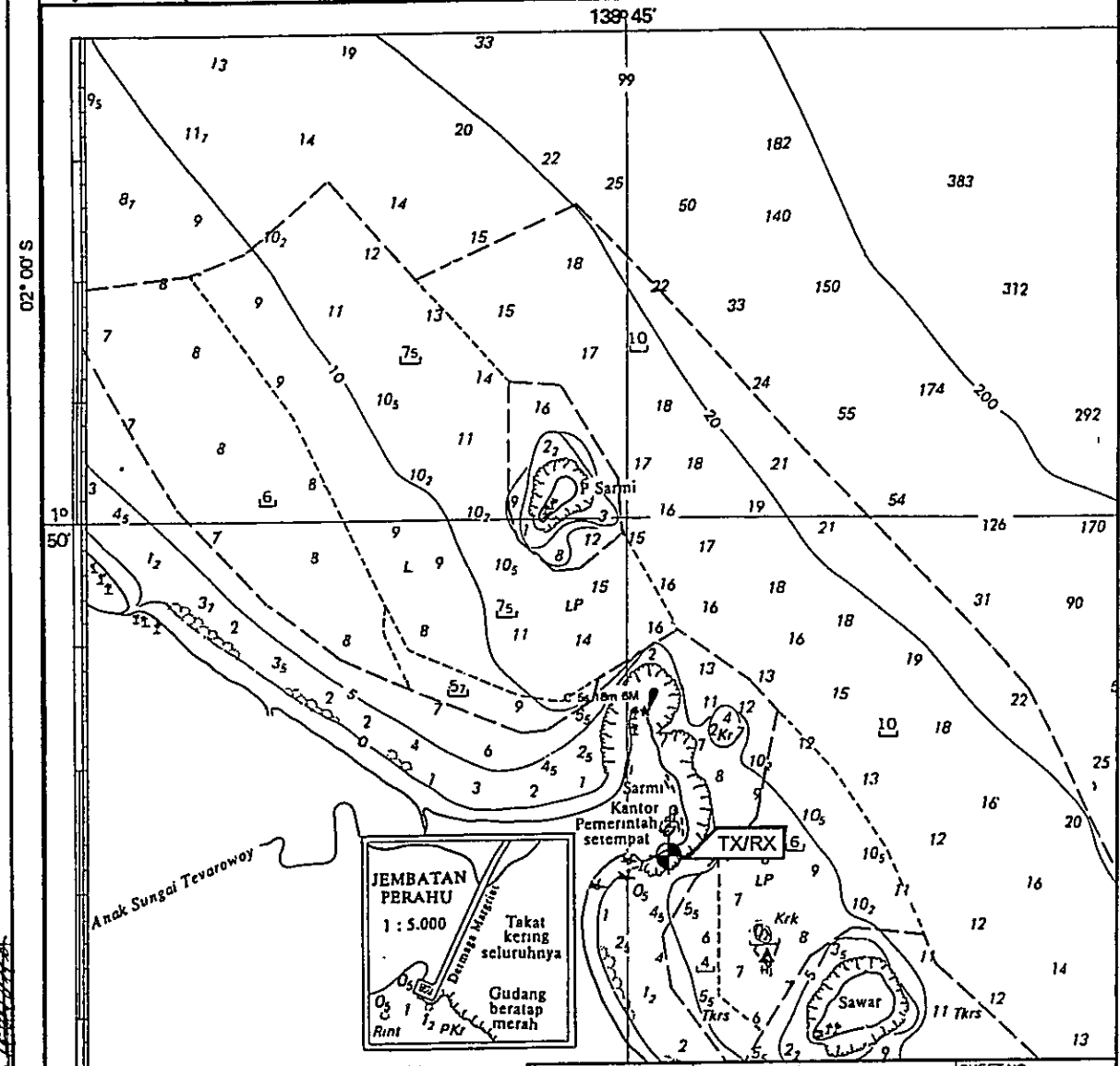
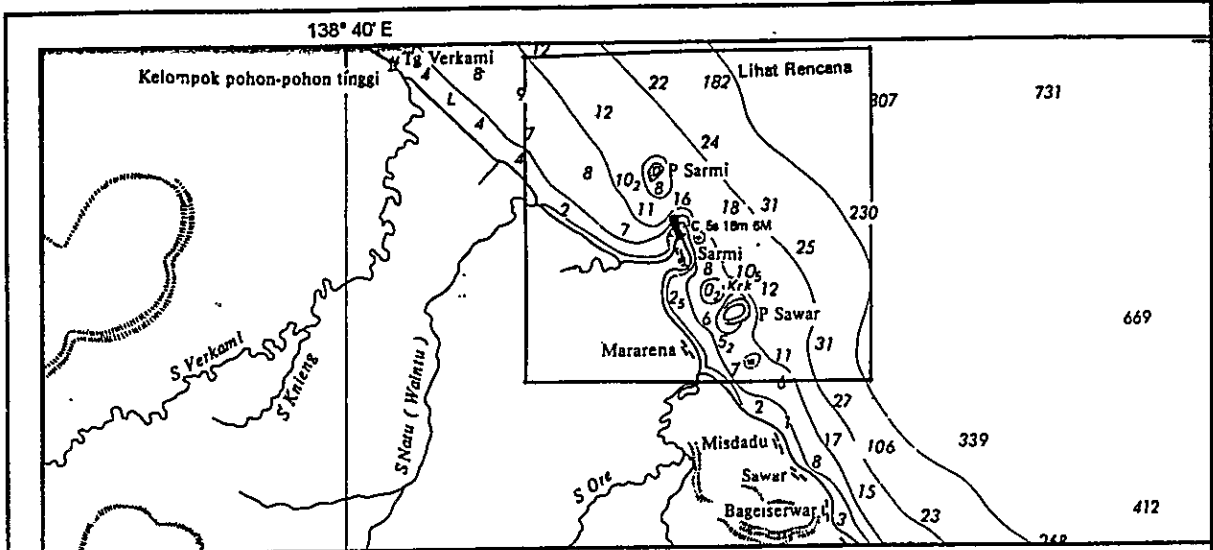
SUMMARY OF COAST STATION						SITE	SARMI					
						CLASS	4th-A	NO.	218			
6. STATISTICAL COMMUNICATION TRAFFIC DATA												
Maritime Safety					Public Telecommunication Service							
Years	TG	TEL	DSC	NBDP	Years	Telephone		TG Call	Years	Telephone		TG Call
						Call	Minute			Call	Minute	
1996					1991				1996			
1997					1992				1997			
1998					1993				1998			
1999					1994				1999			
2000					1995				2000			
7. COMMENTS												
Suggestion												
Remarks												

INVENTORY

Site Name: Sarmi

SRM-218-(1/1)

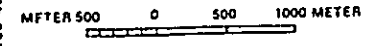
No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		Transmitter							
1		HF Transceiver	IC-M700	O-267	ICOM				Damaged
2		HF Transceiver	IC-M700	5903	ICOM				Good
3		HF Transceiver	IC-M700	50423	ICOM				Good
4		FM Transceiver	TM-241A	70103099	Kenwood				Good
5		FM Transceiver	TM-241A	70703648	Kenwood				Good
2		Tower & Antenna System							
2-1		Antenna Switch							
1		Automatic Antenna Tuner	AT-120		ICOM				Damaged
2		Antenna Tuner	CNW-420		DAIWA				Good
2-2		Antenna Matching Unit							
1		Antenna Balun Matcher	MN-100		ICOM				Good
3		Power Supply Equipment							
3-1		Power Distribution Board							
1		Power Supply	PS-8930	183297	Japan				Good
2		Power Supply	SP-3500		Japan				Good
3		Power Supply	PV-4010		Japan				Good
4		Power Supply	PV-4010		Japan				Good
5		Power Supply	PV-4010		Japan				Good
3-2		UPS & AVR System							
1		Accu Charger							
2		Accu Charger	SM-245		Japan				
3		Accu 12V	N-200						
3-3		Engine Generator							
1		Generator Set	TS-60	17001	Yanmar				Damaged
4		Measuring Equipment							
1		Multi Tester			Sanwa				
2		Multi Tester							Good



PELABUHAN SARMI

SEKALA 1 : 50 000

Dipetakan tahun 1955
Diparit tahun 1955 dan 1956



138° 42' 45" T
01° 53' 00" SVAR 3° 30' T 1990 (6'B)

DATE	July 13, 2001	DRAWING TITLE	SITE LOCATION	SHEET NO	1 / 1
SCALE	1 : 200,000	SITE NAME			
DIMENSION		DRAWING NO			
Meter		S.R.O.P. - S.R.M. - 2.1.8 - 1			

DRAWN BY AAB

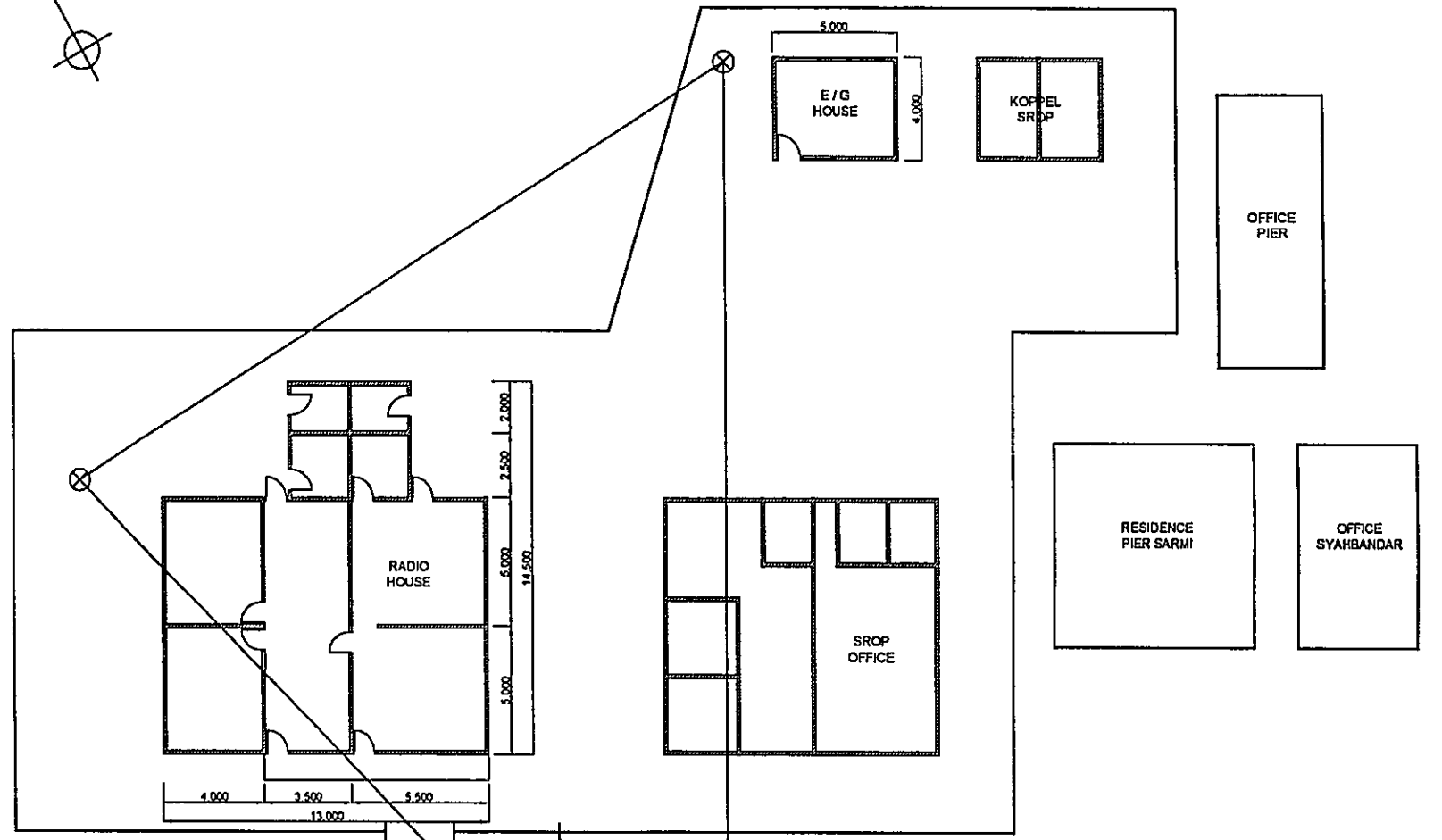
APPROVED BY JICA:



JL. MEMBERIMO

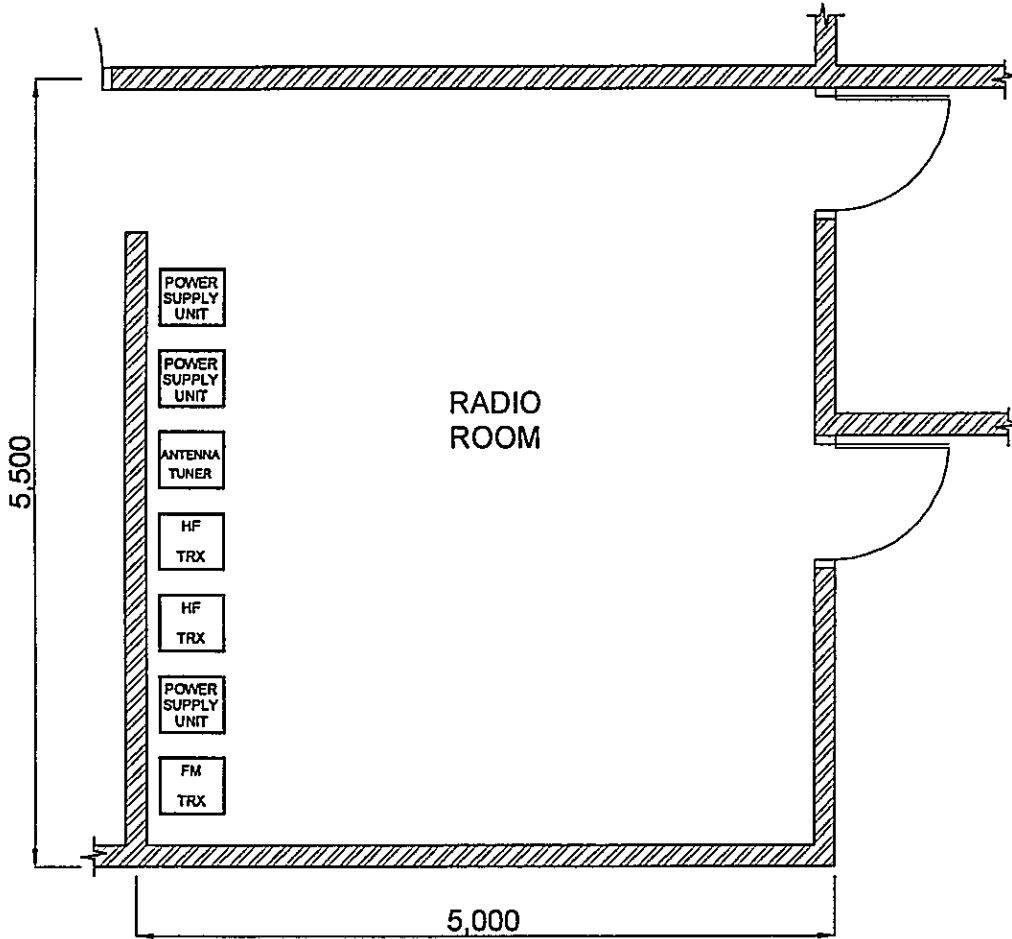
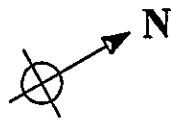
JL. TRIKORA

JL. BRANSILDI



DRAWN BY AAB
APPROVED BY JSA

DATE Sept 12, 2001	DRAWING TITLE ANTENNA LAYOUT	SHEET NO. 1/1
SCALE 1 : 250	SITE NAME SARMI	
DIMENSION Millimeter	DRAWING NO. S R O P - S R M - 2 1 8 - 2	
JICA - PT. Aneka Asia Buana		

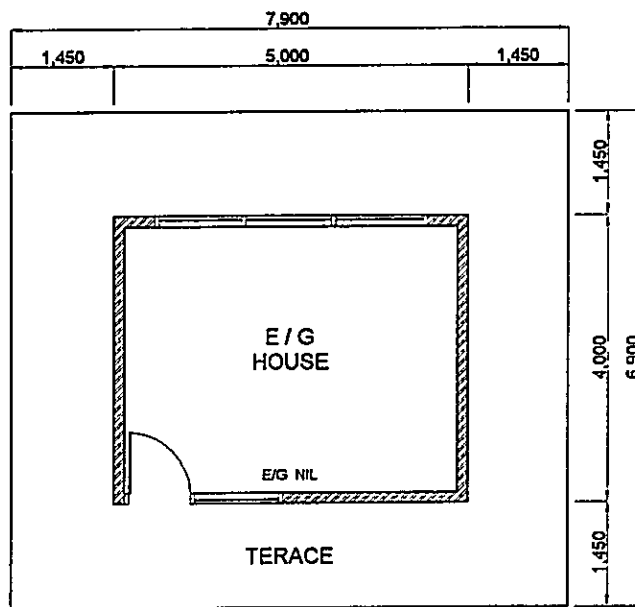


APPROVED BY JISA
 DRAWN BY AAB

LEGEND

HF : HIGH FREQUENCY
 TRX : TRANSCEIVER (ING)



DATE	DRAWING TITLE	SHEET NO.
Sept 12, 2001	EQUIPMENT FLOOR LAYOUT	1/1
SCALE	SITE NAME	
1 : 50	SARMI	
DIMENSION	DRAWING NO.	
Millimeter	S, R, O, P, - S, R, M, - 2, 1, 8, - 3,	
- PT. Aneka Asia Buana		

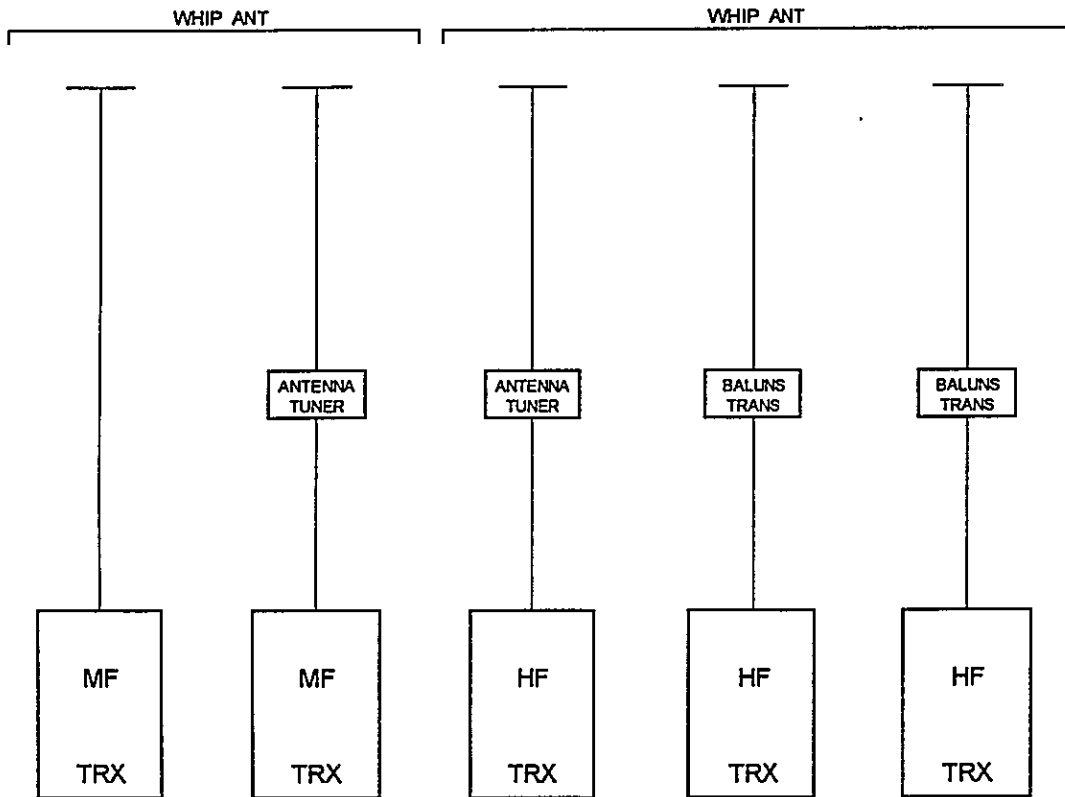


LEGEND

E/G : ENGINE GENERATOR

DRAWN BY AAB
APPROVED BY JCA

DATE Sept 12, 2001	DRAWING TITLE E/G FLOOR LAYOUT	SHEET NO 1/1
SCALE 1 : 100	SITE NAME SARMI	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, S, R, M, -, 2, 1, 8, -, 4, 1	
 -  PT. Aneka Asia Buana		

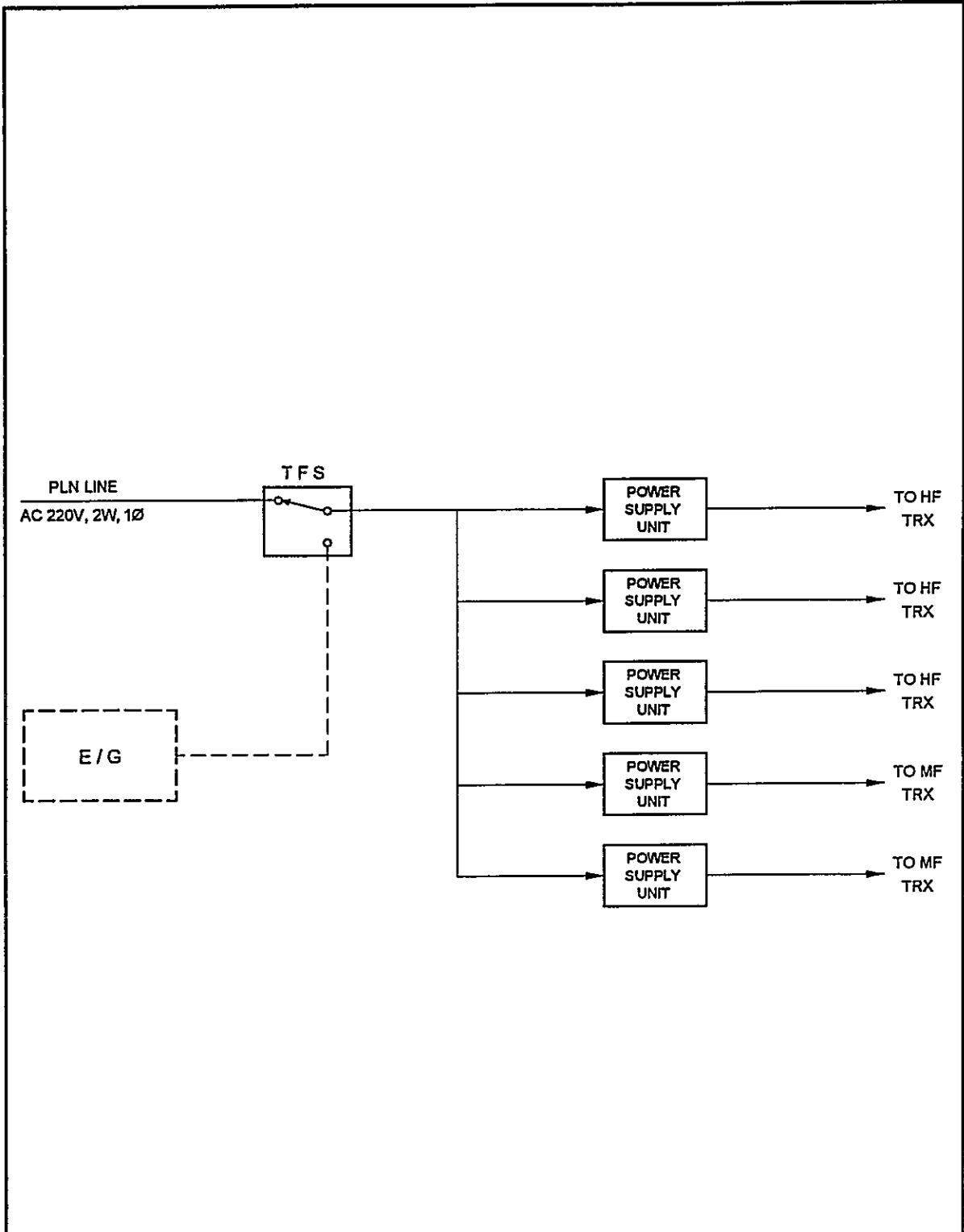


LEGEND

ANT : ANTENNA
 HF : HIGH FREQUENCY
 TRX : TRANSCEIVER

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



DATE Sept 12, 2001	DRAWING TITLE SYSTEM BLOCK DIAGRAM	SHEET NO. 1 / 1
SCALE No Scale	SITE NAME SARMI	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, - S, R, M, - 2, 1, 8, - 5,	
- PT. Aneka Asia Buana		



LEGEND

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

DRAWN BY AAB: 
 APPROVED BY JICA: 

DATE	DRAWING TITLE	SHEET NO
Sept 12, 2001	POWER BLOCK DIAGRAM	1/1
SCALE	SITE NAME	
No Scale	SARMI	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, - S, R, M, - 2, 1, 8, - 6	
 -  PT. Aneka Asia Buana		

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

**4th-A Class Coast Station
Nabire
(Coast Station No. 219)**

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	NABIRE		
	CLASS	4th-A	NO.	219

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Inpress Nabire	22465		135° 30' 00" E	03° 21' 00" S

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Biak {Taking time: 8.00 hr.}	<input checked="" type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	1,116,774
By Air	to Nabire {Taking time: 1.00 hr.}	<input type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Motel	
By Car	to Location {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	<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 checked="" 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	12.00 M		Telephone Lines	<input checked="" type="checkbox"/> <input type="checkbox"/> Feeder Cable Way
Land area	5,000 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	One	Voltage	220 V	Good Bad	
Structure	Concrete	Phase	1	<input type="checkbox"/> <input type="checkbox"/> Power Supply System	
Type of roof	Zinc	Wire	2	<input type="checkbox"/> <input type="checkbox"/> Operations of E/G	
Type of ceiling	Triplex	kVA	0.5	<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	220 V ± 50 %	Day tank	Liter
Flooring	Ceramic	Availability of power per day	6 Hours	Main tank	k Liter
Room Area (m ²)		Power interruption /month	1 Times	E/G Stand-by System	
Operation room	39.00	Total interpt. hours /month	3 Hours	<input type="checkbox"/> Single System	
E / G room	8.00	Max. interpt. hours at once	6 Hours	<input type="checkbox"/> Dual System	
Remark					

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure						TX/RX		
Restoration flow	Repaired by himself or send to Disnav			Chief	1			
Examples of major failure	By lightning			Operator (skilled)	1 (1)		()	
Sufficiency of spares	Not sufficient			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		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 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	NABIRE		
	CLASS	4th-A	NO.	219

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	Maritime telecommunications in Nabire is very important, but for the time being only used by incoming big ship, such as pioneer ship and cargo ship Necessary additional professionalism technician Daily trained personnel which has been worked more than 2 - 4 years, if it is possible can be the additional personnel
Remarks	

INVENTORY

Site Name: Nabire

NBR-219- (1 / 1)

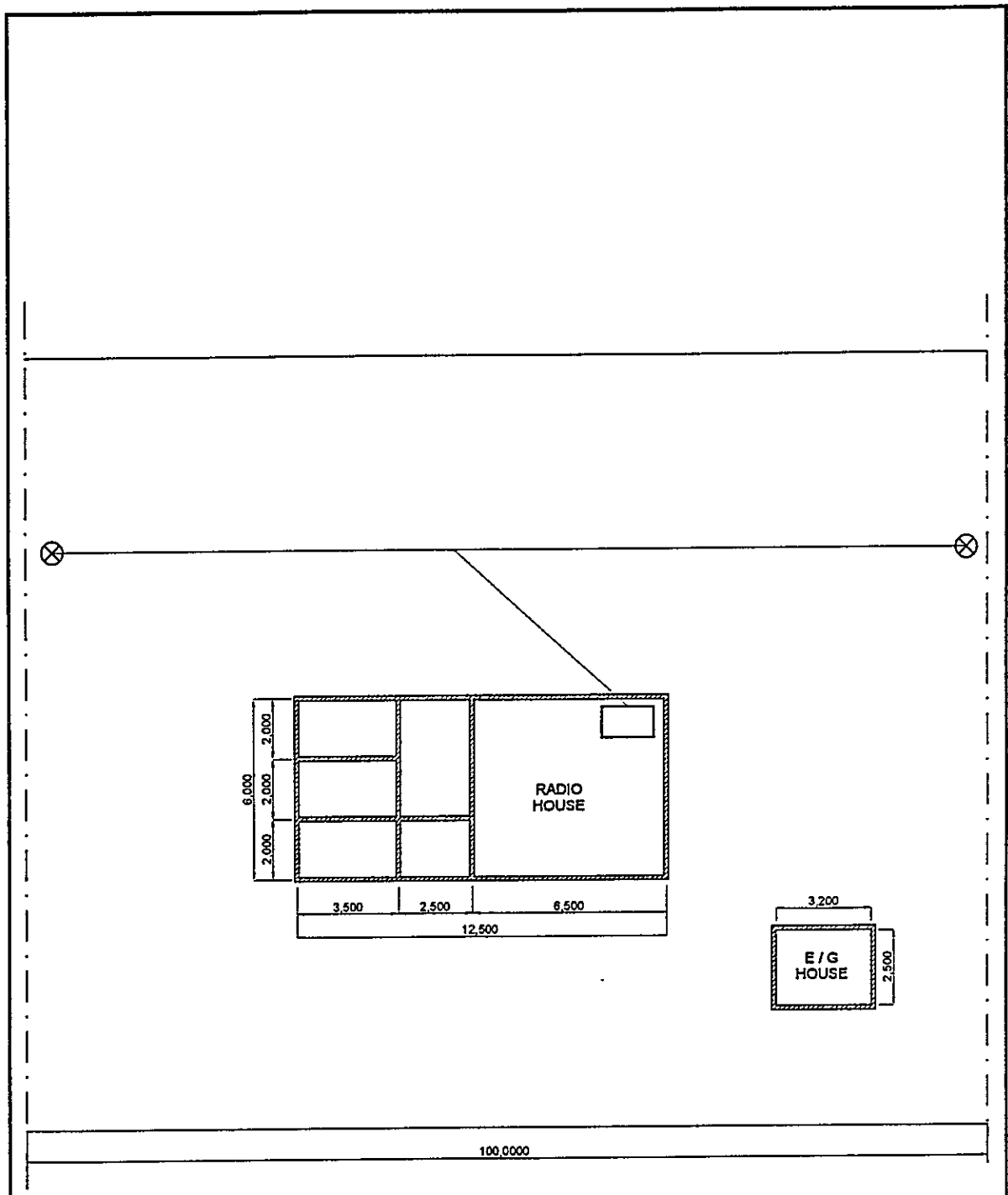
No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1	BXIV/4595	Radio Equipment							
1-1		Transmitter		8404	Yaesu	1978	-	-	Good
1		SSB Transceiver	FT.300C	-	JRC	1980	-	-	Good
2		SSB Transceiver	JSB-51						
3		SSB Transceiver	M700	6205	ICOM	1994	-	-	Good

STATUS OF TROUBLES

SITE NAME : NABIRE

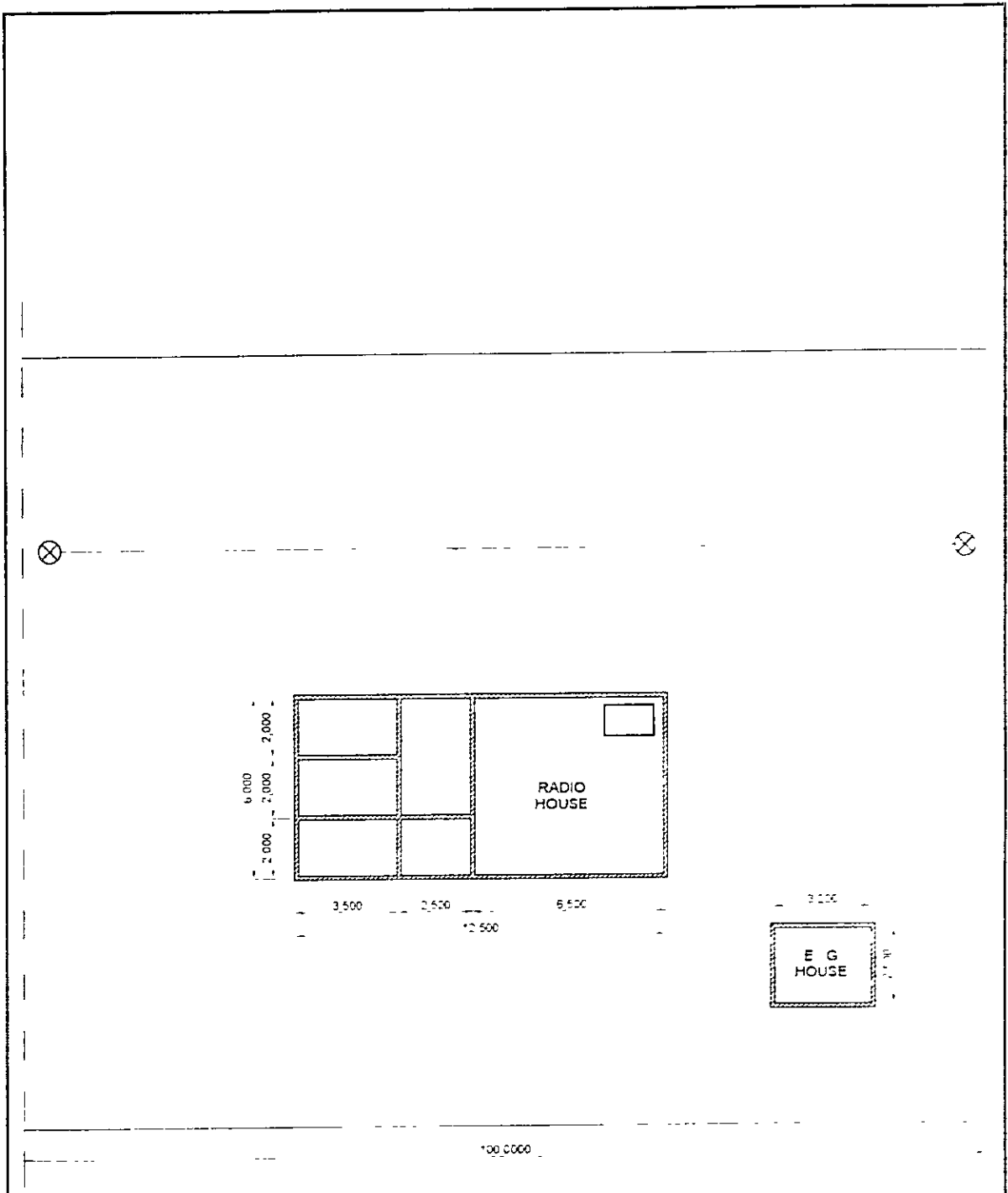
NBR-219-(1/1)

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>Nabire Coast Station office constructed in 1975 (type 80), Operator and his family also stayed in the same place; We request for additional office building and official house operator and to fence 500M Land Coast Station's</p> <p>Request for Air Conditioner, floor cleaner tool, and machine for cutting the grass</p> <p>Additional SSB Icom IC-M700, for ships monitoring</p>			





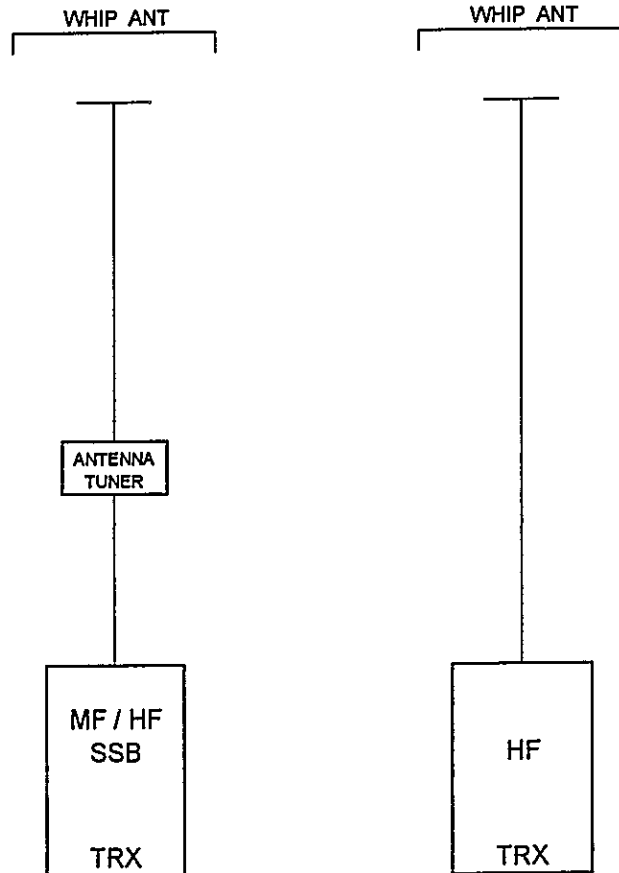
DRAWN BY AAB.
 APPROVED BY JICA:
[Signature]

DATE Sept 12, 2001	DRAWING TITLE ANTENNA LAYOUT	SHEET NO 1/1
SCALE 1 : 200	SITE NAME NABIRE	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, N, B, R, -, 2, 1, 9, -, 2,	
- PT. Aneka Asia Buana		



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

DATE	DRAWING TITLE	SHEETS
Sept 12 2001	ANTENNA LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 200	NABIRE	
DIMENSION	DRAWING NO	
Millimeter	S R O P - N B R - 2 1 9 - 2	
 -  PT. Aneka Asia Buana		



LEGEND

- ANT : ANTENNA
- HF : HIGH FREQUENCY
- MF : MEDIUM FREQUENCY
- TRX : TRANSCEIVER

APPROVED BY JICA
 DRAWN BY BAB

DATE July 30, 2001	DRAWING TITLE SYSTEM BLOCK DIAGRAM	SHEET NO 1/1
SCALE No Scale	SITE NAME NABIRE	
DIMENSION Milimeter	DRAWING NO S, R, O, P, - N, B, R, - 2, 1, 9, - 5,	
- PT. Aneka Asia Buana		

PLN LINE
 0.5kVA
 AC 220V, 2W, 1Ø

TRANSFER
 SWITCH



TO RADIO
 EQUIPMENT

APPROVED BY JCA:

 DRAWN BY AAB:

LEGEND

AC : ALTERNATING CURRENT
 kVA : KILO VOLT AMPERE
 V : VOLT
 W : WIRE / WATT
 Ø : PHASE

DATE	DRAWING TITLE	SHEET NO
July 30, 2001	POWER BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	NABIRE	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, - N, B, R, - 2, 1, 9, - 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**

**SUB DISTRICT NAVIGATION AREA (24)
MERAUKE**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

Sub District Navigation Area (24) Merauke

Table of Content

DISNAV	24	Merauke	Sub
SROP	220	Merauke	3rd Class
	221	Agats	4th-A Class
	222	Bade	4th-A Class

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

Sub District Navigation Office (Area-24) Merauke

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	MERAUKE		
	CLASS	Sub	NO.	24

1. LOCATION				
Address	Tel.	Fax	Longitude	Latitude
Jl. Prof. Muh Yamin Merauke	321161	322913	° ' "	° ' "

2. GENERAL CONDITIONS				
Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Merauke [Taking time: 10.00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	94,010
By Car to Location [Taking time: 0.15 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 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"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input checked="" type="checkbox"/> Clay	<input type="checkbox"/> Rain Leakage	<input type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input type="checkbox"/> Sandy	<input type="checkbox"/> Ground Subsidence	<input type="checkbox"/> Lightning system
Altitude	1.00 m	Telephone Lines	<input type="checkbox"/> Feeder Cable Way
Land area	2,236 m ²	<input checked="" type="checkbox"/> 2 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"/> <input checked="" type="checkbox"/> Power Supply System
Type of roof	Zinc	Wire	2	<input type="checkbox"/> <input checked="" type="checkbox"/> Operations of E/G
Type of ceiling	Triplex	kVA	2.2	<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	220 V ± 10 %	Day tank Liter
Flooring	Tile	Availability of power per day	24 Hours	Main tank k Liter
Room Area (m²)		Power interruption /month	10 Times	E/G Stand-by System
Operation room	205	Total interpt. hours /month	10 Hours	<input type="checkbox"/> Single System
E / G room		Max. interpt. hours at once	3 Hours	<input type="checkbox"/> Dual System
Remark				

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure								
Restoration flow	Repaired at Private Workshop			Chief				
Examples of major failure	Mechine, Body etc.			Operator (skilled)	()			
Sufficiency of spares	Not enough			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 type="checkbox"/> Not so bad	<input checked="" type="checkbox"/> Not capable					

SUMMARY OF DISNAV	SITE	MERAUKE		
	CLASS	Sub	NO.	24

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

**3rd Class Coast Station
Merauke
(Coast Station No. 220)**

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	MERAUKE		
	CLASS	3rd	NO.	220

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelayaran No. 5, Merauke	321781		140° 23' 38" E	08° 28' 47" S

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Merauke [Taking time. 10.00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	94,010
By Car	to Location [Taking time. 0-10 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 checked="" type="checkbox"/>	<input type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input checked="" 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"/> Tide	<input checked="" type="checkbox"/>	<input type="checkbox"/> Lightning system
Altitude	1.00 M		Telephone Lines	<input checked="" type="checkbox"/>	<input type="checkbox"/> Feeder Cable Way
Land area	1,976 m ²		<input checked="" type="checkbox"/> 1 Lines	<input checked="" type="checkbox"/>	<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	3	3	<input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System
Type of roof	Ardex	Wire	4	4	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of E/G
Type of ceiling	Triplex	kVA	13.2	10	<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	220 V ± 10 %		Day tank
Flooring	Vinyl	Availability of power per day	24 Hours	100 Liter	Main tank
Room Area (m ²)		Power interruption /month	6 Times	E/G Stand-by System	
Operation room		Total interpt. hours /month	12 Hours	<input type="checkbox"/> Single System	
E / G room	32.50	Max. interpt. hours at once	3 Hours	<input checked="" type="checkbox"/> Dual System	
Remark					

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure				TX/RX				
Restoration flow	Repaired by himself			Chief	1			
Examples of major failure	Lightening			Operator (skilled)	5 (1) ()			
Sufficiency of spares	Not enough			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 6				
<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 checked="" type="checkbox"/> Reasonable	<input 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 checked="" type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					

SUMMARY OF COAST STATION	SITE	MERAUKE		
	CLASS	3rd	NO.	220

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	57		15	1996	66		
1997					1992	52			1997	78	44	
1998					1993	50		2	1998	49	93	
1999					1994	63		8	1999	59	27	
2000					1995	92			2000	85		

7. COMMENTS

Suggestion	Telecommunication equipment facility Project Year 1996/1997 Phase-III Package-B is still operate up to now, but there is some of them can not be operated optimally
	They are : AVR, NBDP, BSC and Interface Telephone Call, the above condition can not be solved, because there is no qualified technician
	Capable Operator is not sufficient and some of them are not yet be trained - without any technician
Remarks	

INVENTORY

Site Name: Merauke

MRK-220- (1 / 7)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		MF/HF System							
1-1-1		Transmitter/Transceiver							
1		MF/HF Transmitter	NSD-7AA	BS-60200	JRC	1972			Not Used
2		MF/HF Transmitter	NSD-7AA	BS-60201	JRC	1972			Not Used
3		HF Transceiver (JSB-50)	NTD-177	BS-12242	JRC	1972			Not Used
4		HF Transceiver (JSB-50)	NTD-177	BS-12243	JRC	1972			Not Used
5		HF Transceiver	FT-400C	2F050061	Yaesu	1973			Damaged
6		HF Transceiver	FR-124C	8309032	Yaesu	1973			Not Used
7		Telex	S.22211-A-100	EHP-322-299	Siemens	1985			Not Used
1-1-2		Remote Control System							
8		Control Desk	NCE-939B	BP-20685	JRC	1972			Not Used
9		Control Desk	NCE-939B	BP-20686	JRC	1972			Not Used
1-1-3		Receiver							
1		All Wave Receiver	NRD-1S1	BR-12544	JRC	1972			Not Used
2		All Wave Receiver	NRD-1S1	BR-12545	JRC	1972			Not Used
3		All Wave Receiver	NRD-1061		JRC	1975			Damaged
4		500 KHz AA Receiver	JXA-15A	BA-21122	JRC	1985			Good
5		2182 KHz AA Receiver	JXA-8A	BA-21046	JRC	1985			Good
6		500 KHz AA Buzzer	BZ-18	BA-21122	JRC	1985			Good
7		Power Unit	NBA-3575	BP-21122	JRC	1985			Good
1-2		MF/HF Operation Console							
1-2-1		MF System							
1		MF Console	RH-002		Sailor	1996	F-TA-193: PH3		Good
2		MF Transmitter							
		400W MF Transmitter	T1127L	504132	Sailor	1996	F-TA-193: PH3		Good
		400W MF Transmitter	T1127L	504133	Sailor	1996	F-TA-193: PH3		Good
		Exciter	S1301L	504103	Sailor	1996	F-TA-193: PH3		Good
		Exciter	S1301L	504137	Sailor	1996	F-TA-193: PH3		Good
		Tuner	H1201	504121	Sailor	1996	F-TA-193: PH3		Good
		Tuner	H1201	504122	Sailor	1996	F-TA-193: PH3		Good

Merauke

INVENTORY

Site Name: Merauke

MRK-220- (2 / 7)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition	
1-2-2	1	Power Supply	N1401	522736	Sailor	1996	F-TA-193; PH3		Good	
		Power Supply	N1401	522737	Sailor	1996	F-TA-193; PH3		Good	
2		MF/HF System	RH-16-3		Sailor	1996	F-TA-193; PH3		Good	
		MF/HF Console								
3		MF/HF Equipment								
		600 W MF/HF Transmitter	T2131	517362	Sailor	1996	F-TA-193; PH3		Good	
		601 W MF/HF Transmitter	T2131	514889	Sailor	1996	F-TA-193; PH3		Good	
		AC Power Supply	N2171	520482	Sailor	1996	F-TA-193; PH3		Good	
		AC Power Supply	N2171	517378	Sailor	1996	F-TA-193; PH3		Good	
		Antenna Coupler	AT2112	522618	Sailor	1996	F-TA-193; PH3		Good	
		Antenna Coupler	AT2112	522617	Sailor	1996	F-TA-193; PH3		Good	
		CW Unit	H2185	514373	Sailor	1996	F-TA-193; PH3		Good	
		CW Unit	H2185	514372	Sailor	1996	F-TA-193; PH3		Good	
		All Wave Receiver								
		Control Unit HF1	RE2100	523159	Sailor	1996	F-TA-193; PH3		Good	
		Control Unit HF2	RE2100	521650	Sailor	1996	F-TA-193; PH3		Good	
		Duplex Receiver	R2120T	511896	Sailor	1996	F-TA-193; PH3		Good	
		Duplex Receiver	R2120T	511879	Sailor	1996	F-TA-193; PH3		Good	
4		Loudspeaker	H2054		Sailor	1996	F-TA-193; PH3		Good	
		Loudspeaker	H2054		Sailor	1996	F-TA-193; PH3		Good	
		Spot Receiver								
		MF/HF DSC W/K RX	RM2150	523159	Sailor	1996	F-TA-193; PH3		Good	
5		Power Supply	N2165	510619	Sailor	1996	F-TA-193; PH3		Good	
		Terminal Unit (DSC VHF/HF)								
		DSC System	TT-6200A		Sailor	1996	F-TA-193; PH3		Good	
		LAN	TT-101064		Sailor	1996	F-TA-193; PH3		Good	
		LAN I/O	TT-101065		Sailor	1996	F-TA-193; PH3		Good	
		CPU	TT-101051		Sailor	1996	F-TA-193; PH3		Good	
		CPU I/O	TT-10123		Sailor	1996	F-TA-193; PH3		Good	
		Parallel	TT-101190		Sailor	1996	F-TA-193; PH3		Good	
		Parallel I/O	TT-101217		Sailor	1996	F-TA-193; PH3		Good	
		VIIIF Modem	TT-102239		Sailor	1996	F-TA-193; PH3		Good	

INVENTORY

Site Name: Merauke

MRK-220- (3 / 7)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition	
6		HF Modem	TT-1022337		Sailor	1996	F-TA-193: PH3		Good	
		Modem I/O	TT-102238		Sailor	1996	F-TA-193 PH3		Good	
		Modem I/O	TT-102238		Sailor	1996	F-TA-193: PH3		Good	
		Alarm I/O	TT-101242		Sailor	1996	F-TA-193: PH3		Good	
		Power Supply	TT-101122		Sailor	1996	F-TA-193: PH3		Good	
		Power Input	TT-101241		Sailor	1996	F-TA-193: PH3		Good	
		DSC Op. Position Term /PC								
		1) Personal Computer	Proline 466		160648-202	Compaq	1996	F-TA-193: PH3		Good
		2) Monitor	I40		532AF05CB859	Compaq	1996	F-TA-193: PH3		Good
		Printer (H-1252A)	TT-1608C		5CAP3193249K	Sailor	1996	F-TA-193: PH3		Good
7		Monitor Display	TT-3602B	9603543	Sailor	1996	F-TA-193: PH3		Good	
		DSC Alarm	TT-1542B	9603514	Sailor	1996	F-TA-193: PH3		Good	
		Signal Control Panel								
		Audio/Digital Matrix	MTX-1616	139	Sailor	1996	F-TA-193: PH3		Good	
		Keyer	KK-1	367	Sailor	1996	F-TA-193: PH3		Good	
		Loudspeaker	H2054		Sailor	1996	F-TA-193: PH3		Good	
		Loudspeaker	H2054		Sailor	1996	F-TA-193: PH3		Good	
		Telephone Repeater (Phone Patch)								
		Radio/Tel I/F Unit	RTU-282	171	Sailor	1996	F-TA-193: PH3		Good	
		ARQ Equipment								
8		Radiotelex Modem	TT-1585E	9603503	Sailor	1996	F-TA-193: PH3		Good	
		ARQ Key Board	TT-1601 A	9603533	Sailor	1996	F-TA-193: PH3		Good	
		Printer (H1252A)	TT-1680C	61AP3196146K	Sailor	1996	F-TA-193: PH3		Good	
		Telex Alarm	TT-1542B	9603513	Sailor	1996	F-TA-193: PH3		Good	
		VHF System								
		VHF Transceiver	JHV-207/PS	CB-58500	JRC	1973			Damaged	
		VHF Transceiver	JHV-207R	CB-56504	JRC	1973			Damaged	
		VHF Transceiver	FR-1540	OE-070120	Yaesu	1980			Good	
		VHF Transceiver	JHV-227YA	BH-16880	JRC	1989			Good	
		Duplexer	NFJ-24YN	9-1236	JRC	1989			Good	

Merauke

INVENTORY

Site Name: Merauke

MRK-220- (4/7)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1-3-2		VHF Operation Console	RH-16-1		Sailor	1996	F-TA-193: PH3		Good
1		Operation Console							
2		Multichannel VHF Transceiver	RT 2048	523681	Sailor	1996	F-TA-193: PH3		Good
		VHF Transceiver	RT 2048	523688	Sailor	1996	F-TA-193: PH3		Good
		VHF Transceiver	RT 2048	523701	Sailor	1996	F-TA-193: PH3		Good
		VHF Transceiver	RT 2048	523702	Sailor	1996	F-TA-193: PH3		Good
		Linier Power Amplifier	A2080BE-H	266	Sailor	1996	F-TA-193: PH3		Good
		Linier Power Amplifier	A2080BE-H	283	Sailor	1996	F-TA-193: PH3		Good
		Linier Power Amplifier	A2080BE-H	286	Sailor	1996	F-TA-193: PH3		Good
		Linier Power Amplifier	A2080BE-H	307	Sailor	1996	F-TA-193: PH3		Good
		Duplex Filter		594150	Sailor	1996	F-TA-193: PH3		Good
		Duplex Filter		594153	Sailor	1996	F-TA-193: PH3		Good
2		CH-70 VHF T/R							
		VHF Transceiver	RT2048	523703	Sailor	1996	F-TA-193: PH3		Good
		High Low I/F Unit (2)		2	Sailor	1996	F-TA-193: PH3		Good
		RF Power Amplifier	A2080BE-H	567	Sailor	1996	F-TA-193: PH3		Good
		AC Power Supply	N163S	N16301	Sailor	1996	F-TA-193: PH3		Good
		DC Power Supply	N420	N42001	Sailor	1996	F-TA-193: PH3		Good
		AC Power Supply	PSF-1	TWR/12770/039	Sailor	1996	F-TA-193: PH3		Good
3		Term.Equipt. (DSC VHF/HF)							
		Audio/Digital Matrix	MTX-1616	137	Sailor	1996	F-TA-193: PH3		Good
		Telephone Repeater							
4		Radio/Tel I/F Unit	RTU-280	181	Sailor	1996	F-TA-193: PH3		Good
2		Tower & Antenna System							
2-1		Tower & Mast							
		TX Station							
		20mH Self Supporting (3)	Triangle		JRC	1972			Good
2-2		Antenna System							
1		I/L Antenna for T/R	HF7		Sailor	1996	F-TA-193: PH3		Good
1		VHF Antenna	VHF 3		Sailor	1996	F-TA-193: PH3		Good
2									

Merauke

INVENTORY

Site Name: Merauke

MRK-220- (5 / 7)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
2-3		Antenna Selector							
1		Matrix Selector Antenna Changer	AW-244	BP-80621	JRC	1972			Not Used
2		Antenna Coupler	XW-49	BP-73287	JRC	1972			Not Used
3		Antenna Coupler	XW-49	BP-73288	JRC	1972			Not Used
4		Antenna Multicoupler	NAF-80FA	BC-13514	JRC	1985			Good
5		BC Band Rejection Filter	CFL-172	BC-13554	JRC	1985			Good
6		Antenna Distributor	AAD101/A-J1-6G	001010	Sailor	1996	F-TA-193: PH3		Good
3		Power Supply Equipment							
3-1		Power Distribution Board							
1		Switch Board	NCB-429B	BP-10222	JRC	1972			Good
2		7.5kVA PDB for TX/RX		9505	JRC	1996			Good
3		10 kVA Control Panel (AMF)	PL 95-7s	9508		1996	F-TA-193: PH3		Good
3-2		Isolation Transformer							
1		7.5kVA, 4W, 3P	IST 10P3	9501	JRC	1996			Good
3-3		Step-Up Transformer							
1		Transformer	Step Up/Down		Oriental	1975			Good
2		Transformer of AC	SIK-1	FACT-5387	JRC	1972			Not Used
3		Transformer of AC	SIK-1	FACT-5388	JRC	1972			Not Used
4		9.9kVA, 4W, 3P	STU 10P3	9501	PNT Elect	1996			Good
3-4		UPS & AVR							
1		VHF Power Supply	NBA-848A	CB-56500	JRC	1972			Not Used
2		VHF Power Supply	NBA-848A	CB-56504	JRC	1972			Not Used
3		TX Power Supply	NBA-704EA	BS-60200	JRC	1972			Not Used
4		TX Power Supply	NBA-704EA	BS-60201	JRC	1972			Not Used
10		Power Unit for JSB-50	NBA-901B	BP-73226	JRC	1972			Not Used
11		Power Unit for JSB-50	NBA-901B	BP-73227	JRC	1972			Not Used
5		Accumulator 12V/50Ah							
6		Accu Charger							
7		AVR 5kVA	NBZ-295A	BP-80687	Asahi	1972			Good
8		AVR 7.5kVA, 4W, 3P	AVR7P3	9501	Sailor	1996	F-TA-193: PH3		Good

INVENTORY

Site Name: Merauke

MRK-220- (6 / 7)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3-5		Engine Generator Engine (15.5 HP) Engine (15.5 HP) Generator 7.5kVA Generator 7.5kVA 10 kVA E/G Single Standby System Engine Generator E/G Panel Fuel System	TS-155 TS-156 MFG MFG	73cc-168 73cc-169	Yanmar Yanmar Osaka HD Osaka HD	1973 1973 1972 1973			Good Good Good Good
5		10 kVA E/G Single Standby System	EG 10 RA	584138	KUBOTA	1996	F-TA-193: PH3		Good
6		Generator E/G Panel Fuel System Starting, Fuel, Exhaust System Fuel Control Unit 100 L Fuel Day Tank 1000 L Fuel Storage Tank	V-1505E BC1-164-D	CO51634/7 9515	STAMFORD	1996 1996 1996 1996	F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3		Good Good Good Good
4		Measuring Equipment Electro Volt Meter Trans Diep Meter Oscilloscope Oscilloscope Oscilloscope Frequency Counter Analog Oscilloscope - Plobe/Lead (x2) - Power Cable (x1) - Black Cover (x1) - Operation Manual Fluke 87 Multimeter Fluke 87 Multimeter Fluke 87 Multimeter - Test Lead Set (x3) - Hoester House Yellow (x3) - User Manual (x6)	PM-8B WB-200	C-72359 20911 VP-058A VP-058A VP-058A NJM-176C DM639001	JRC Delica JRC JRC JRC JRC	1972 1972 1972 1972 1972 1972 1996			Good Good Damaged Damaged Damaged Good Good
8				64510744		1996	F-TA-193: PH3		Good
9				64510745		1996	F-TA-193: PH3		Good
10				64510746		1996	F-TA-193: PH3		Good
						1996			Good
						1996			Good

Merauke

INVENTORY

Site Name: Merauke

MRK-220-(7/7)

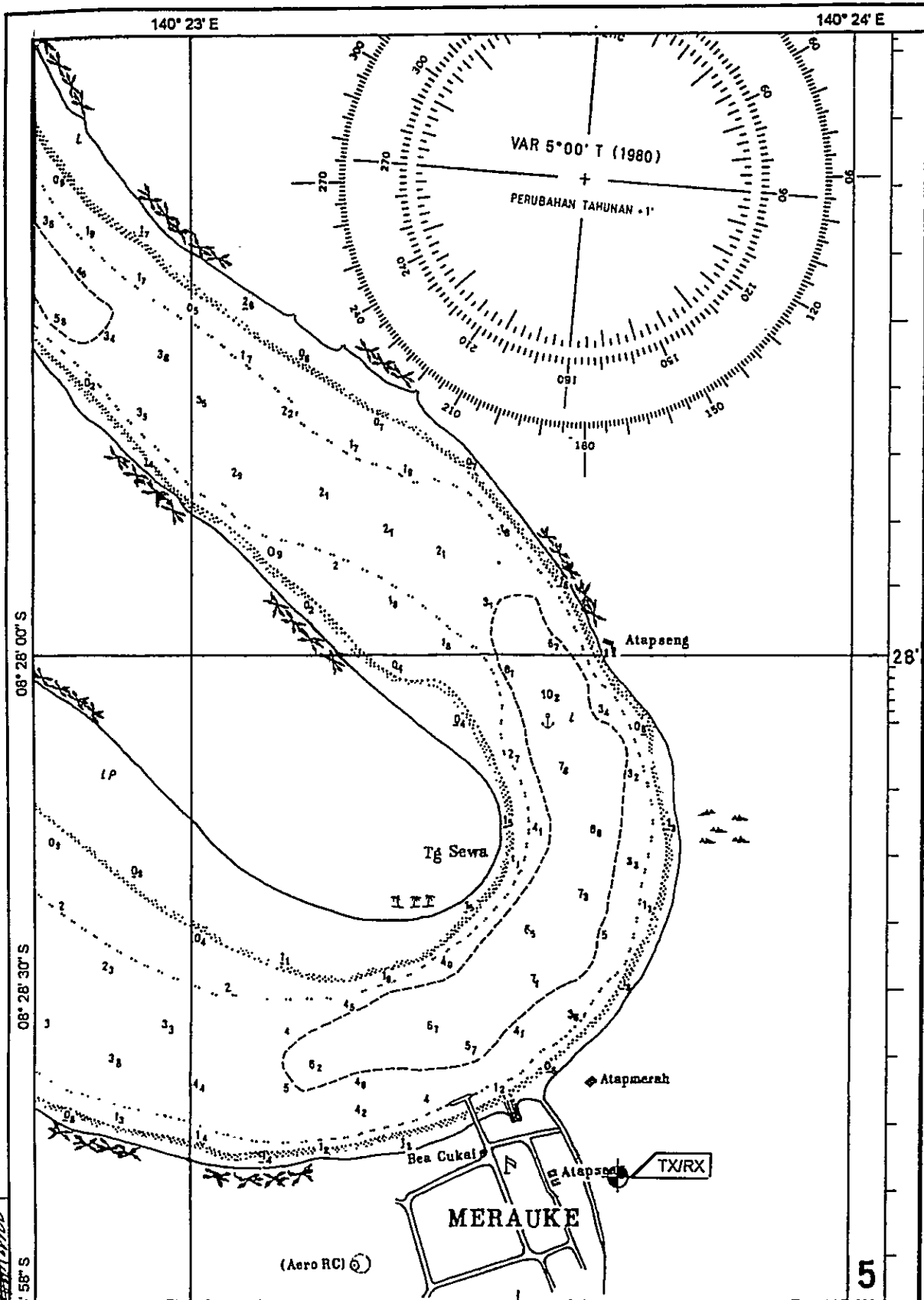
No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
11		Insulation Tester - Line Plobe (x1) - Earth Plobe (x1) - Carrying Case (x1) - Instruction Manual (x1) RF Coaxial Load Resistor RF Coaxial Load Resistor - Connection Cable (x1)	2406A	65WA152B		1996	F-TA-193: PH3		Good Good Good Good Good Good Good
12			8201	17092	Sailor	1996	F-TA-193: PH3		Good
13			8201	17084	Sailor	1996	F-TA-193: PH3		Good
5		Others							
1		Air Conditioner	RA-221T	FACT-3587	Hitachi	1972			Not Good
2		Air Conditioner	RA-221T	FACT-3588	Hitachi	1972			Not Good
3		Air Conditioner	AGD-8175	210379	Panda	1979			Not Good
4		Direction Monitoring Equipment	JXR-2	BP-91202	JRC	1987			Good
5		Diff:Omega Monitoring Station	M6	000300	Sarcel	1987			Good
6		Omega	M-610DIF	000135	Sarcel	1987			Good
7		Computer for Omega	858B/W/I/O	2703A57282	HP	1987			Good
8		Telex	S.22211-A.100	EHP-322-249	Siemens	1985			Not Good
9		Telephone set with call timer (2)			Sailor	1996	F-TA-193: PH3		Good
10		Headset (2)	DM 811		Sailor	1996	F-TA-193: PH3		Good
11		Hand set (6)			Sailor	1996	F-TA-193: PH3		Good
12		Desk Microphone (2)	DM 6500 P		Sailor	1996	F-TA-193: PH3		Good
13		Morse Key			Sailor	1996	F-TA-193: PH3		Good
14		Quartz Clock			Sailor	1996	F-TA-193: PH3		Good
15		Services Engineers Kit			Sailor	1996	F-TA-193: PH3		Good
16		Mouse	RS 541-365		Sailor	1996	F-TA-193: PH3		Good
17		Chair			Sailor	1996	F-TA-193: PH3		Good

STATUS OF TROUBLES

SITE NAME : MERAUKE

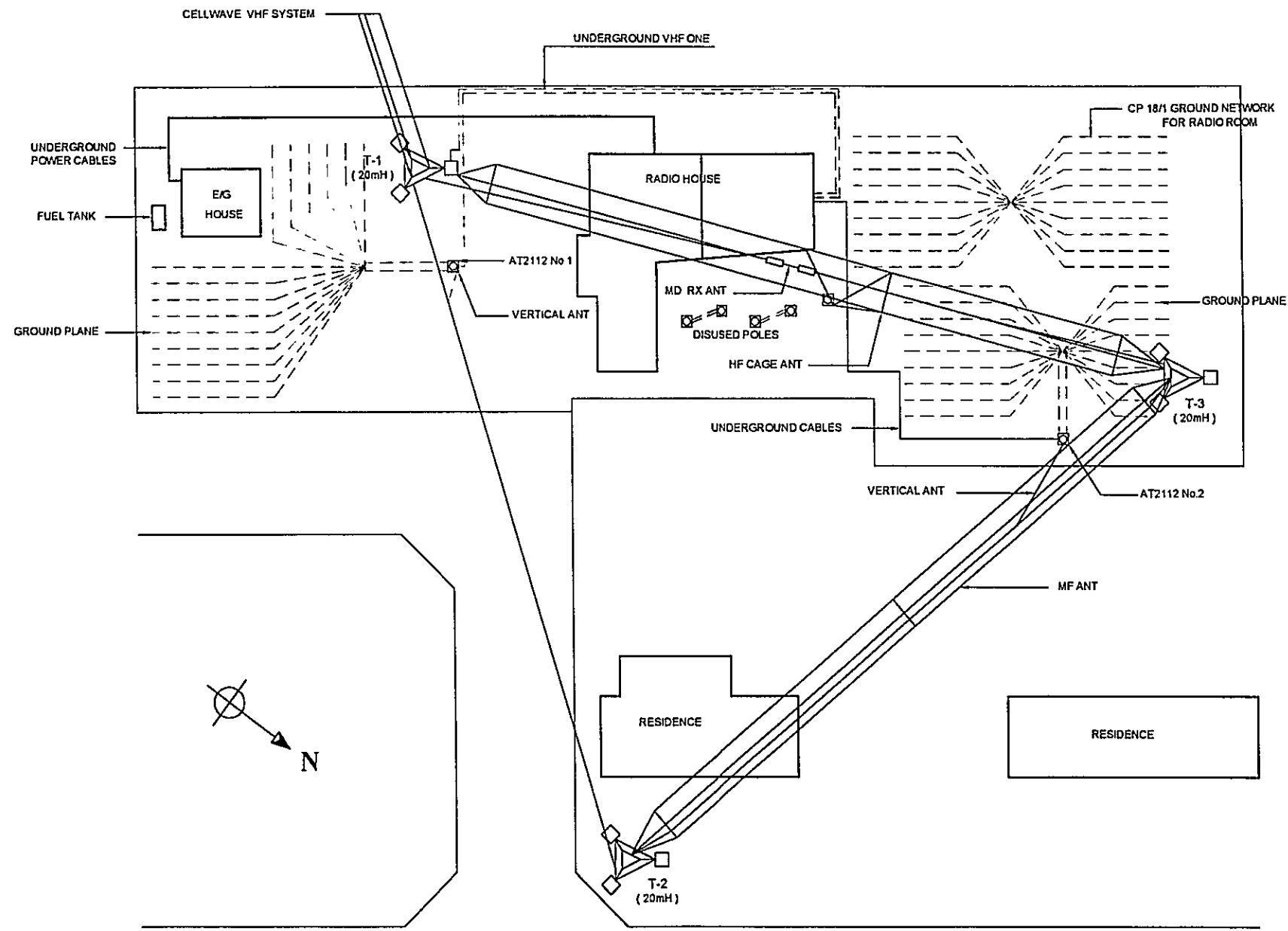
MRK-220-(1/1)

Item / Equipment	AVR 7.5 KVA / -		
Manufacturer	PNT Electronic Jakarta		
Manufacturer in year	1996		
Defective panel / unit	Module Mosfet		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	<input type="checkbox"/> Aging		<input checked="" 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>Stabilizer voltage condition is always changed and decreased, it will be disturbed for work activity and equipment We request for repairing of the above mentioned equipment, and completed by capable technician We request for maintenance budget</p>			



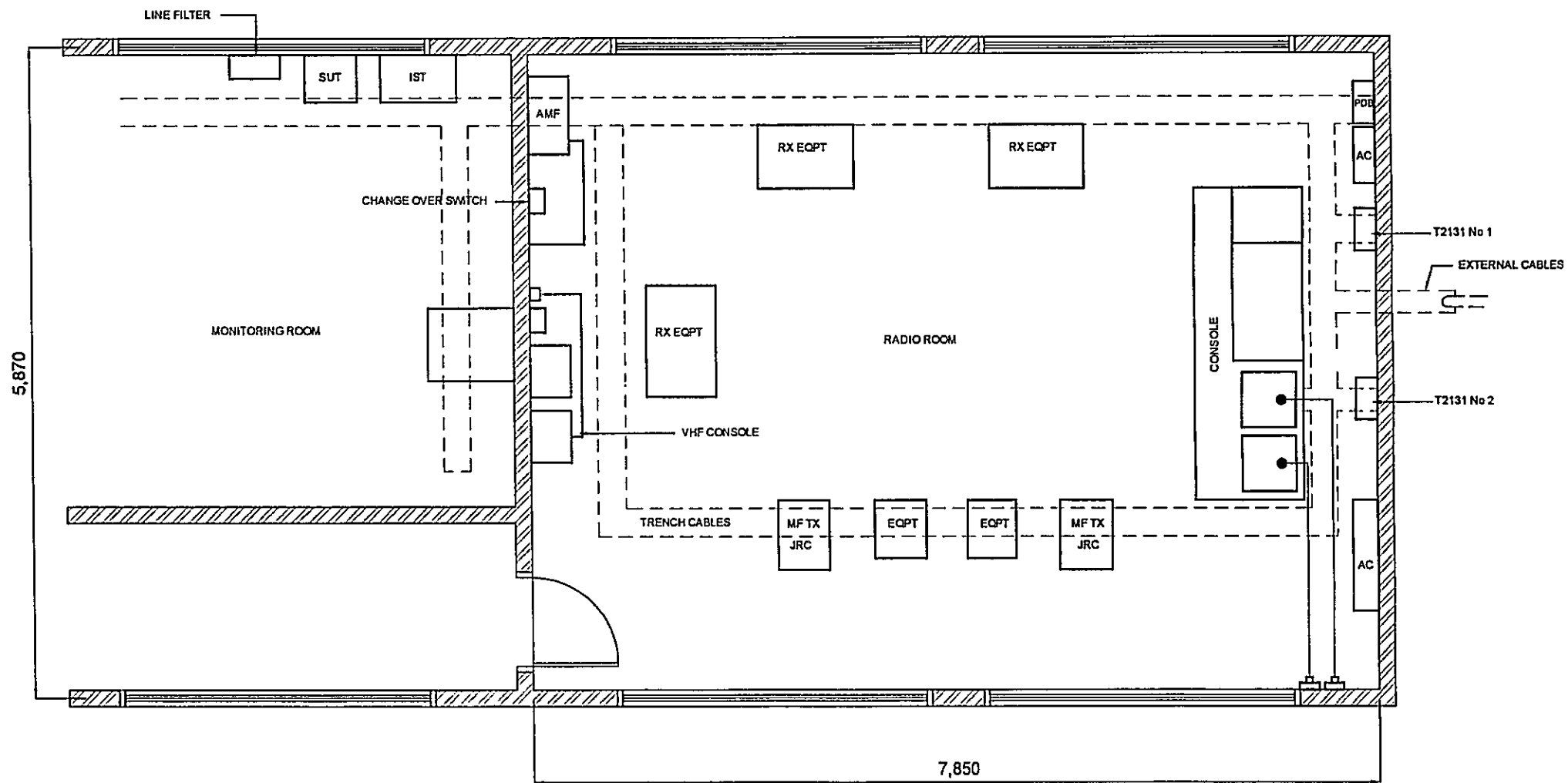
DRAWN BY AAB
 APPROVED BY JICA

DATE	DRAWING TITLE	SHEET NO.
July 13, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 15,000	MERAUKE	
DIMENSION	DRAWING NO.	
Meter	S, R, O, P, - M, R, K, - 2, 2, 0, - 1,	



APPROVED BY JICA
 DRAWN BY AAB

DATE	DRAWING TITLE	SHEET NO
July 17, 2001	ANTENNA LAYOUT	1/1
SCALE	SITE NAME	
1 : 250	MERAUKE	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, -, M, R, K, -, 2, 2, 0, -, 2,	
- PT. Aneka Asia Buana		

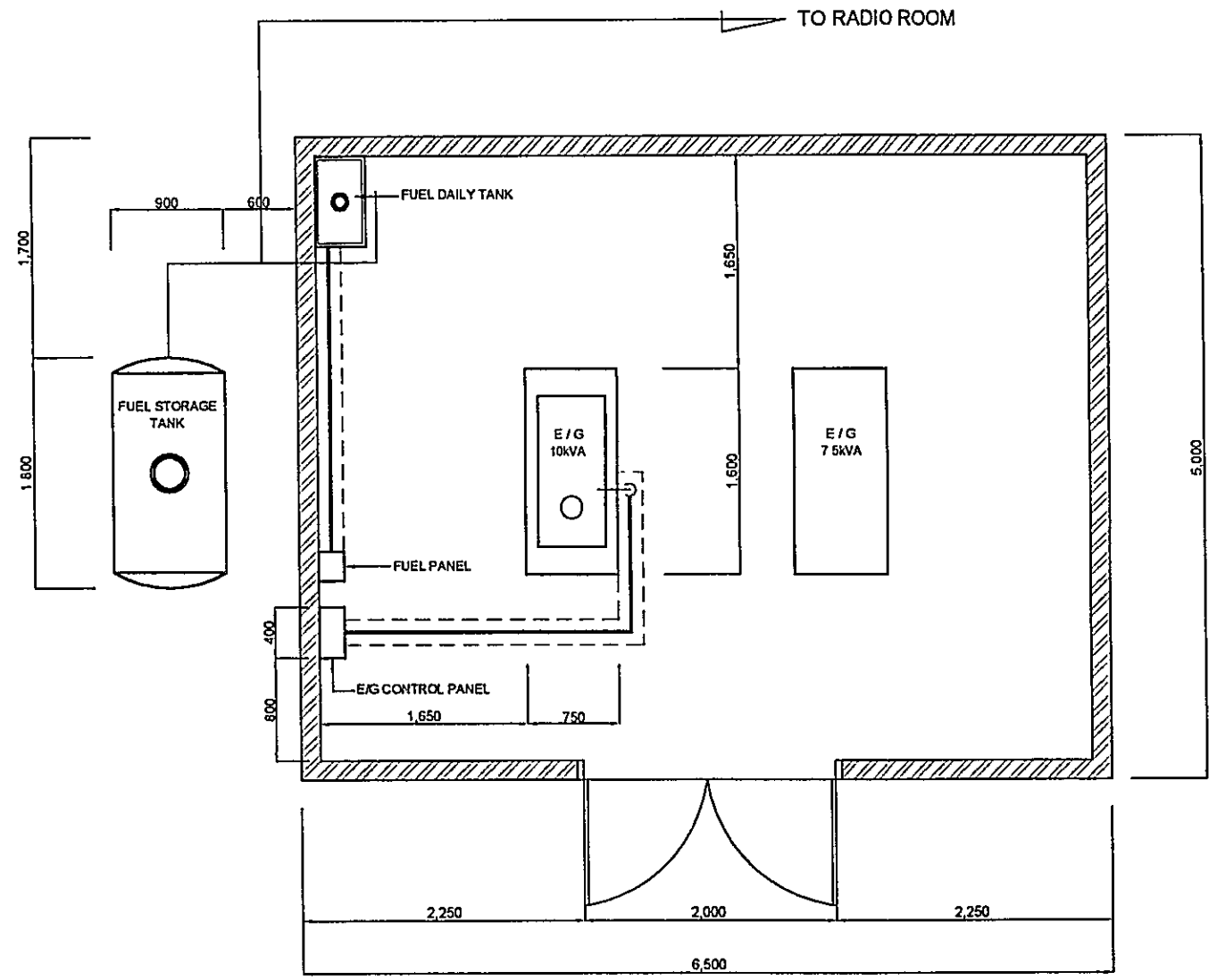
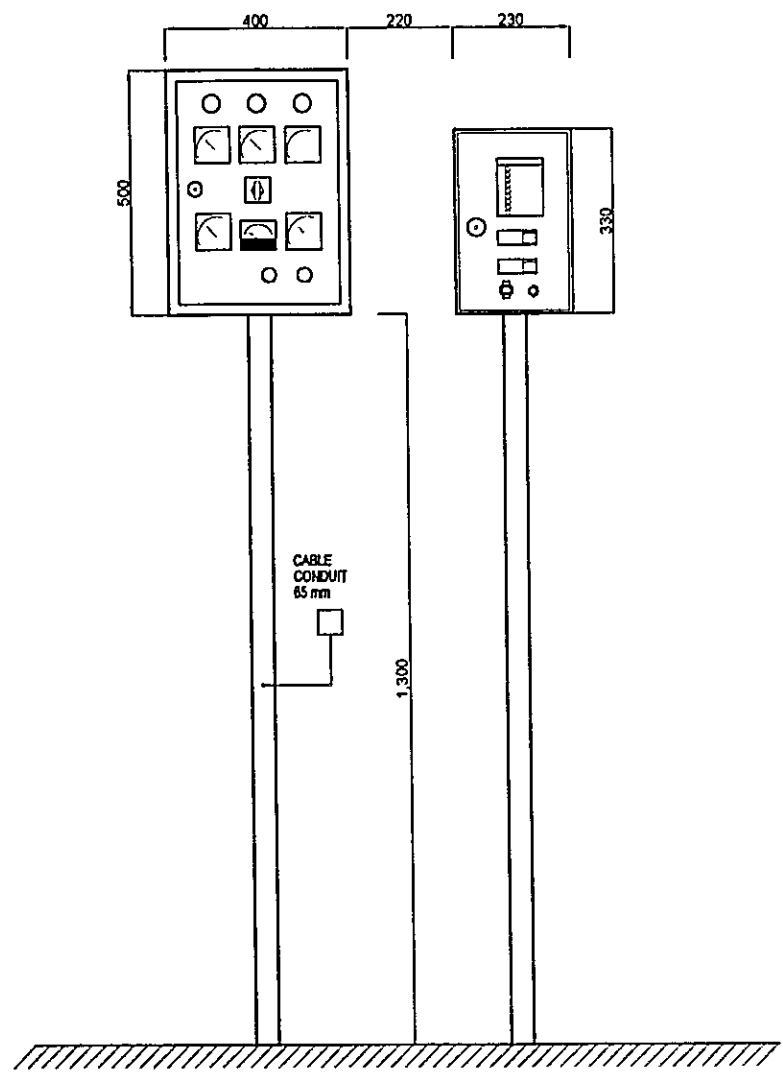


DRAWN BY: ASB - APPROVED BY: JICA

LEGEND

- IST : ISOLATION TRANSFORMER
- MF : MEDIUM FREQUENCY
- RX : RECEIVER (ING)
- SUT : STEP - UP TRANSFORMER
- TX : TRANSMITTER (ING)

DATE	DRAWING TITLE	SHEET NO
July 17, 2001	EQUIPMENT FLOOR LAYOUT	1/1
SCALE	SITE NAME	
1 : 50	MERAUKE	
DIMENSION	DRAWING NO.	
Millimeter	S, R, O, P, -, M, R, K, -, 2, 2, 0, -, 3, 1	

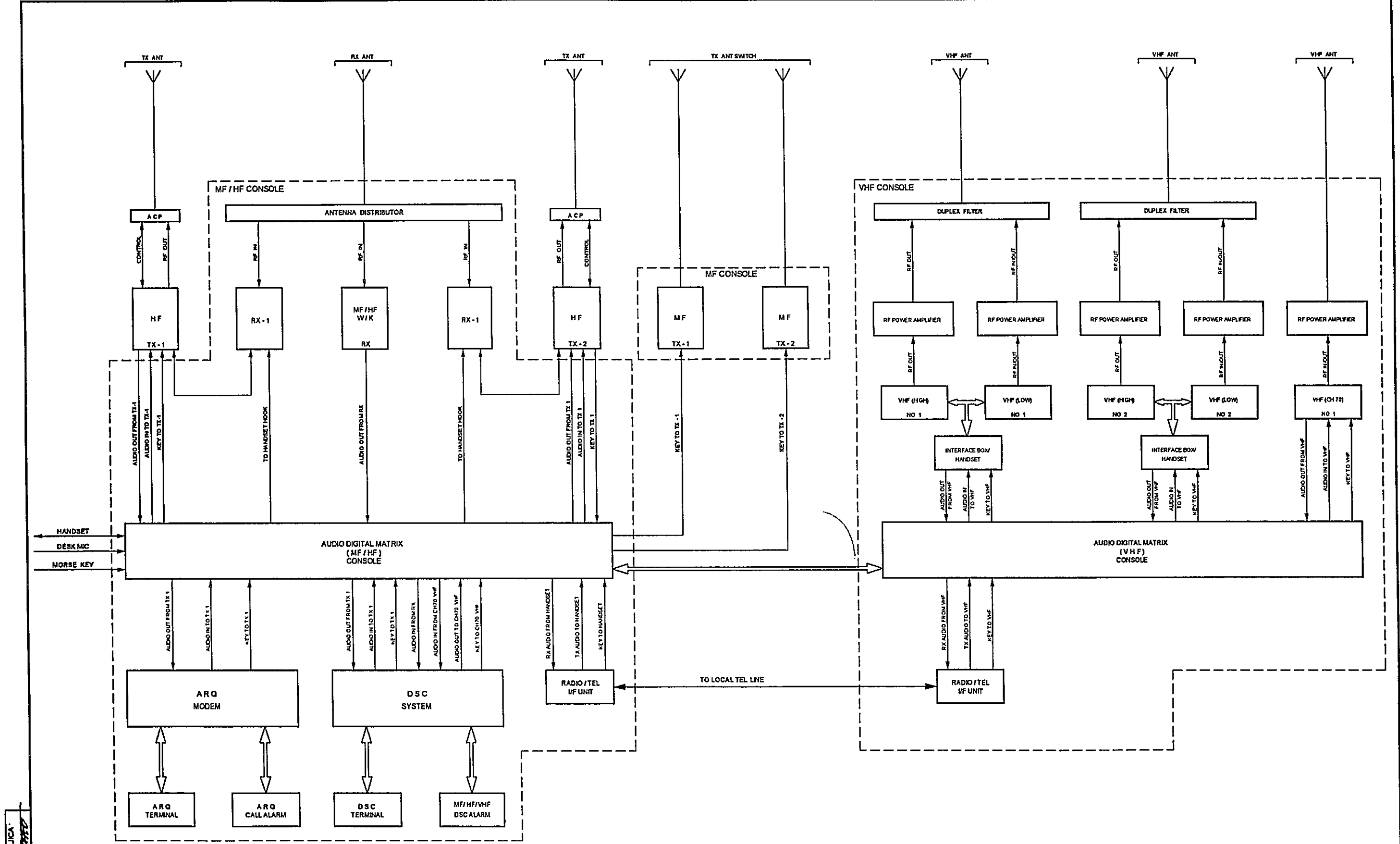


APPROVED BY JICA: *[Signature]*
 DRAWN BY AAB: *[Signature]*

LEGEND

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

DATE July 17, 2001	DRAWING TITLE E/G FLOOR LAYOUT	SHEET NO. 1/1
SCALE 1:50 / 1:20	SITE NAME MERAUKE	
DIMENSION Millimeter	DRAWING NO. S.R.O.P - M.R.K - 2.2.0 - 4	
-		PT. Aneka Asia Buana

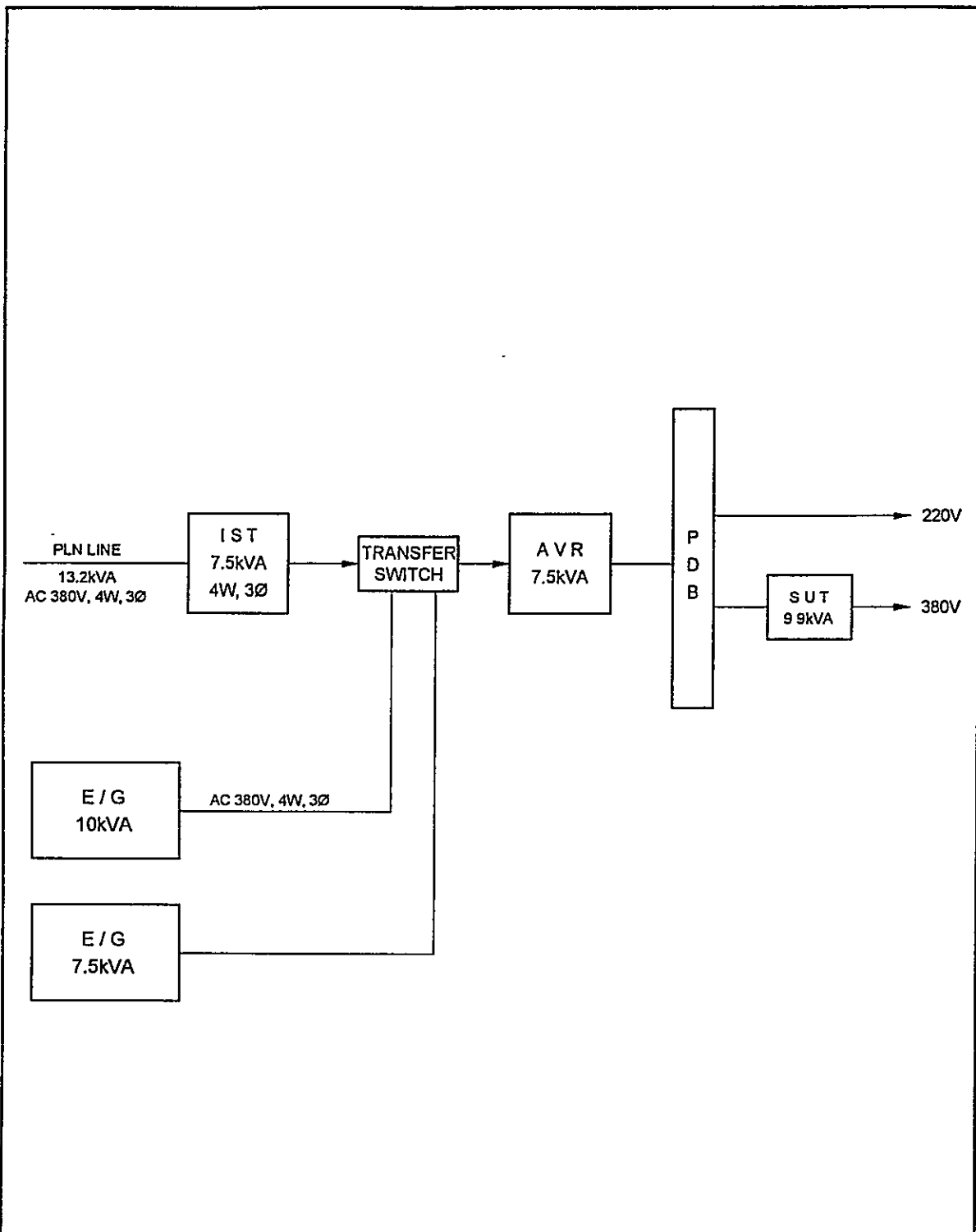


DRAWN BY: AAB
 APPROVED BY: JICA

LEGEND

ANT : ANTENNA
 DSC : DIGITAL SELECTIVE CALLING
 HF : HIGH FREQUENCY
 MF : MEDIUM FREQUENCY
 VHF : VERY HIGH FREQUENCY

DATE	DRAWING TITLE	SHEET NO.
August 03, 2001	SYSTEM BLOCK DIAGRAM	1/1
SCALE	SITE NAME	
No Scale	MERAUKE	
DIMENSION	DRAWING NO.	
Millimeter	S, R, O, P, -, M, R, K, -, 2, 2, 0, -, 5,	
- PT. Aneka Asia Buana		



LEGEND

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

DRAWN BY AAB
 APPROVED BY JICA

DATE August 03, 2001	DRAWING TITLE POWER BLOCK DIAGRAM	SHEET NO 1/1
SCALE No Scale	SITE NAME MERAUKE	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, - M, R, K, - 2, 2, 0, - 6,	
- PT. Aneka Asia Buana		

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

**4th-A Class Coast Station
Agats
(Coast Station No. 221)**

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	AGATS		
	CLASS	4th-A	NO.	221

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Yos Sudarso	31087		138° 07' 40" E	05° 32' 10" S

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Merauke [Taking time: 10.00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	8,298
By Air	to Agats [Taking time: 3.00 hr.]	<input checked="" type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Motel	
By Ship	to Location [Taking time: 0:15 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 checked="" 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 checked="" 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 type="checkbox"/> Sandy			<input type="checkbox"/>	<input checked="" type="checkbox"/> Lightning system
Altitude	0.50 M		Telephone Lines	<input checked="" type="checkbox"/>	<input 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	One	Voltage	220 V	220 V	Good	Bad
Structure	Board	Phase	1	1	<input checked="" type="checkbox"/>	<input type="checkbox"/> Power Supply System
Type of roof	Ardex	Wire	2	2	<input checked="" type="checkbox"/>	<input type="checkbox"/> Operations of E/G
Type of ceiling	Triplex	kVA		3	<input type="checkbox"/>	<input checked="" type="checkbox"/> Operations of AVR
Type of wall	Board	Quality of PLN source			Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	220 V ± 10 %		Day tank	6 Liter
Flooring	Wooden	Availability of power per day	7 Hours		Main tank	k Liter
Room Area (m ²)		Power interruption /month	8 Times		E/G Stand-by System	
Operation room		Total interpt. hours /month	16 Hours		<input checked="" type="checkbox"/> Single System	
E / G room	20.00	Max. interpt. hours at once	21 Hours		<input type="checkbox"/> Dual System	
Remark						

4. OPERATION AND MAINTENANCE					5. PERSONNEL FORMATIONS				
Actions taken in equipment failure									
Restoration flow	Repaired in Merauke Coast Station				Chief	1			
Examples of major failure	Lightening				Operator (skilled)	1	0	0	0
Sufficiency of spares					Technician (skilled)	0	0	0	0
Records of damages					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									
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	AGATS		
	CLASS	4th-A	NO.	221

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: Agats

AGT-221- (1 / 1)

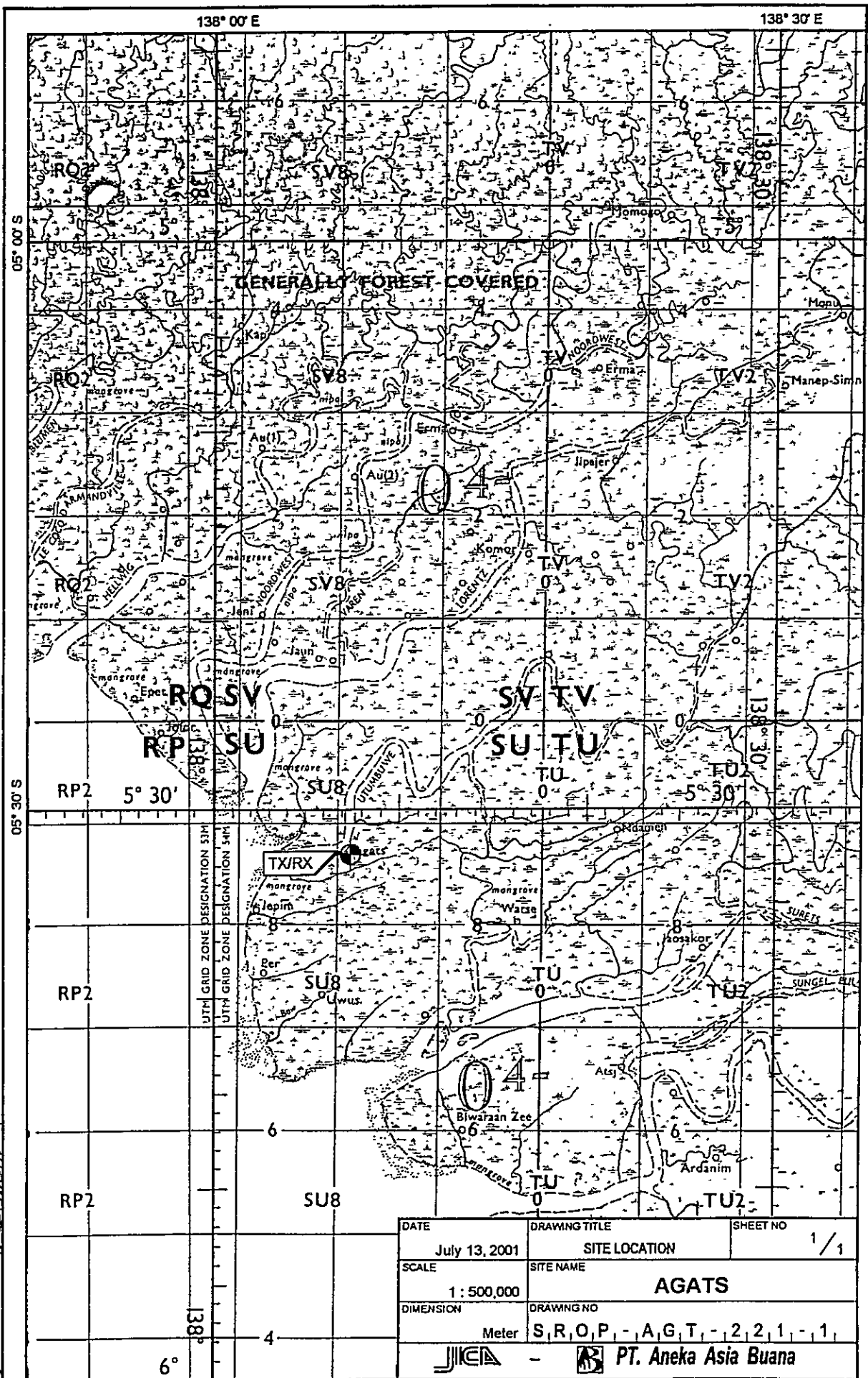
No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		Transmitter	IC-M700	5823	ICOM	1994	-	-	Good
1-2		HF Transceiver							
1-2		VHF System	VHF-20/3	4220040	SINGAPORE	1994	-	-	Damaged
2		Tower & Antenna System							
2-1		Tower & Mast							
2-1		15 mH Pipe Guy Mast (2)				1994	-	-	Good
2-2		6 mH Pipe Mast (1)				1994	-	-	Good
2-2		Antenna System							
2-2		Audiovox Antenna	OPEK-5/8 GP		ICOM	1994	-	-	Good
2-2		Antenna Matching Unit							
2-2		Antenna Matcher	MN-100		ICOM	1994	-	-	Good
3		Power Supply Equipment							
3-1		UPS & AVR System							
3-1		UPS	AA-1000H	P4110839	AECO				Damaged
3-1		Stabilizer 110V/220V 1kVA	MG 700A		MIRUSA	1994	-	-	Good
3-1		HF Power Supply	DM-125MVZ		GI	1994	-	-	Good
3-1		VHF Power Supply	MBC 725D		MATAHARI				Good
3-1		Accu Charger	N-150	0160	INCOE	1994	-	-	Damaged
3-1		Accumulator	N-100	65		2000	-	-	Good
3-1		Accumulator							
3-2		Engine Generator							
3-2		Engine 6.5 HP	TF 65H	645087H	YANMAR	1994	-	-	Good
3-2		Generator 3kVA	ST-3	T83335-831	AC SINK	1994	-	-	Good
4		Measuring Equipment							
4		Tester		1					Damaged
5		Others							
5		Fan	JF120	2	WIDY				Good

STATUS OF TROUBLES

SITE NAME : AGATS

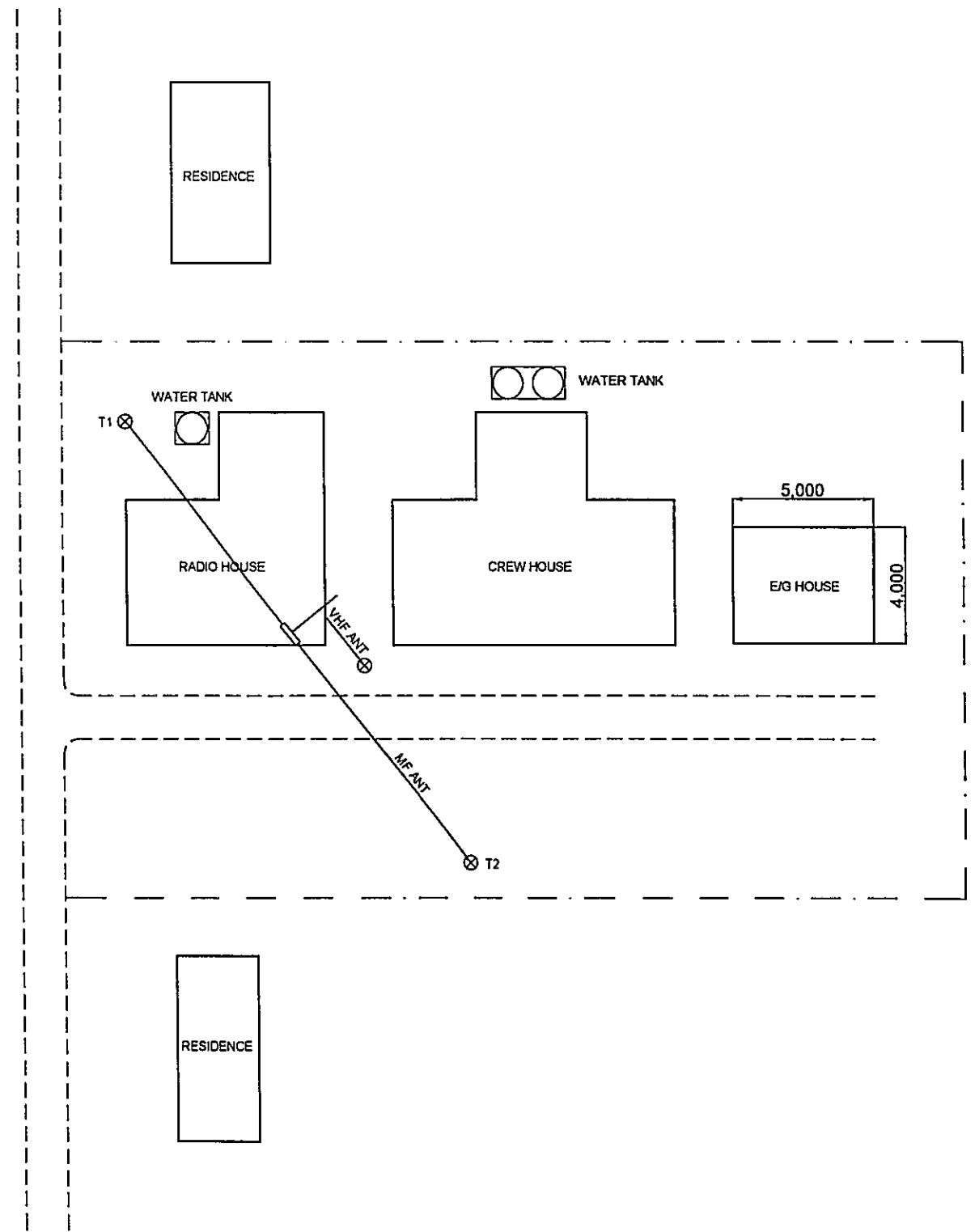
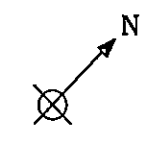
AGT-221-(1/1)

Item / Equipment	VHF Transceiver 25W / -		
Manufacturer	Singapore		
Manufacturer in year	1995		
Defective panel / unit	RF Unit and Power Amplifier Unit		
Details of Trouble Status	Cause doe to:	Urgency of Repair	
	<input type="checkbox"/> Aging		
	<input checked="" type="checkbox"/> Lightning		
	<input type="checkbox"/> Corrosion		
	<input type="checkbox"/> Lack of Spares		
<input type="checkbox"/> Others	Repairing to be:		
			<input type="checkbox"/> Immediacy
			<input checked="" type="checkbox"/> By next year budget
			<input type="checkbox"/> By next project
			<input type="checkbox"/> Unnecessary
<u>General Comment for Maintenance:</u>			
Needed immediacy repairing for VHF Transceiver 25W Request for capable technician and sufficient budget for maintenance			



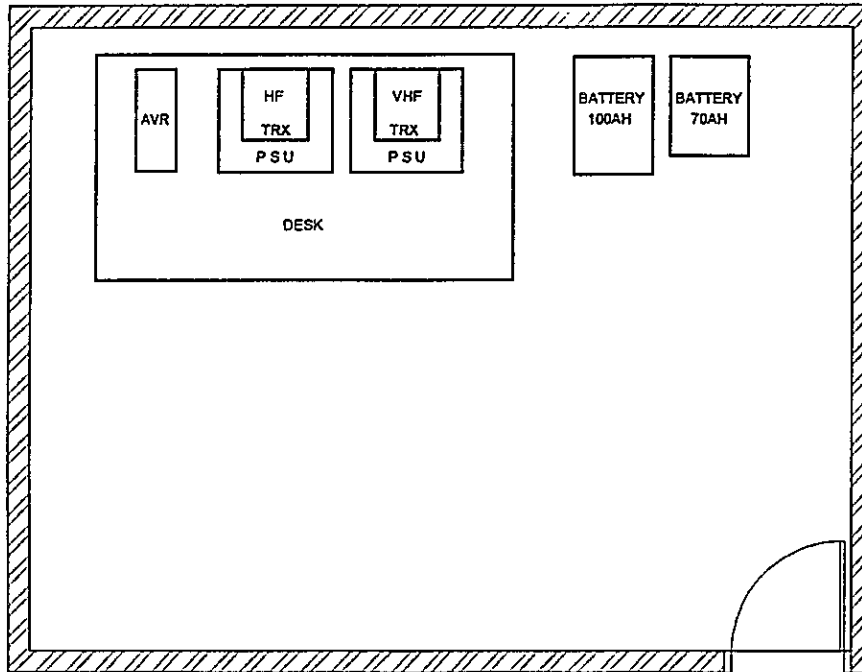
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 APPROVED BY JICA

DATE	DRAWING TITLE	SHEET NO
July 13, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 500,000	AGATS	
DIMENSION	DRAWING NO	
Meter	S, R, O, P, - A, G, T, - 2, 2, 1 - 1	



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DATE	DRAWING TITLE	SHEET NO
Oct 01, 2001	ANTENNA LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 200	AGATS	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, - , A, G, T, - , 2, 2, 1, - , 2, 1	
- PT. Aneka Asia Buana		

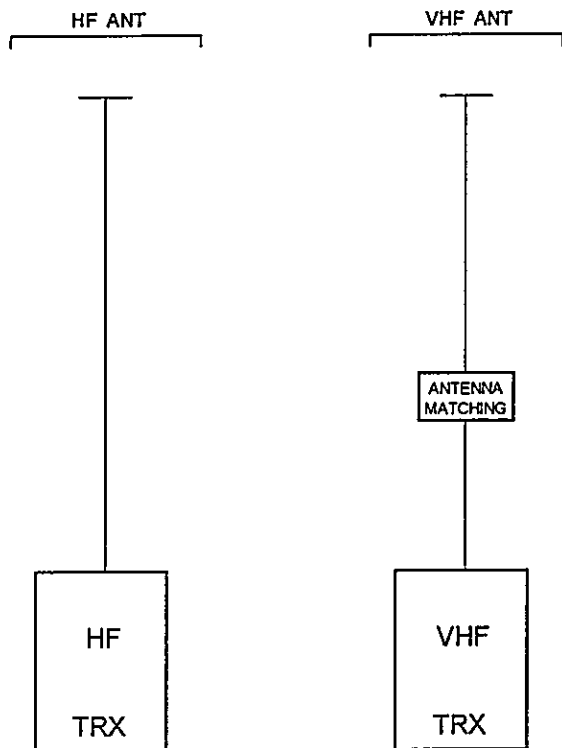


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LEGEND

- AVR AUTOMATIC VOLTAGE REGULATOR
- HF HIGH FREQUENCY
- PSU POWER SUPPLY UNIT
- TRX TRANSCEIVER (ING)
- VHF VERY HIGH FREQUENCY

DATE July 17, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT	SHEET NO 1 / 1
SCALE No Scale	SITE NAME AGATS	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, A, G, T, -, 2, 2, 1, -, 3, 1	
 -  PT. Aneka Asia Buana		

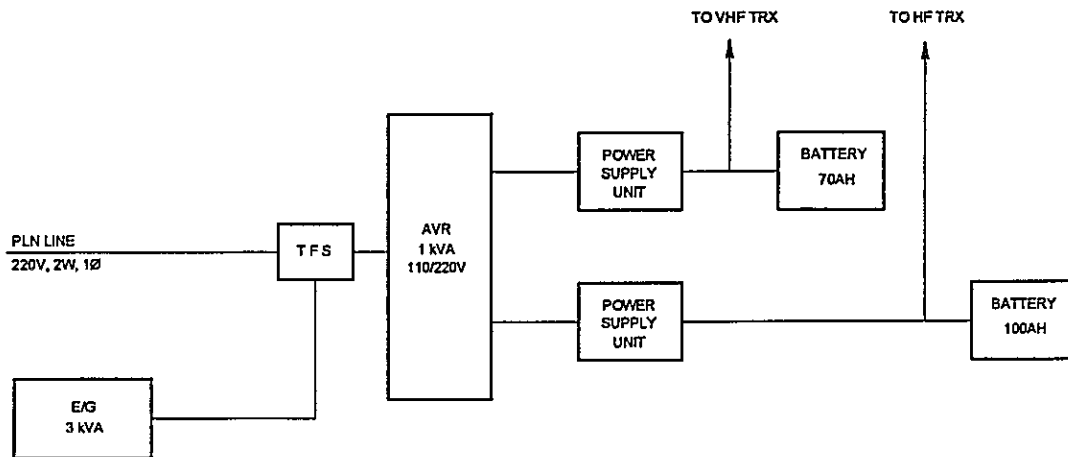


LEGEND

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

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DATE July 17, 2001	DRAWING TITLE SYSTEM BLOCK DIAGRAM	SHEET NO 1/1
SCALE No Scale	SITE NAME AGATS	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, A, G, T, -, 2, 2, 1, -, 5,	
- PT. Aneka Asia Buana		



LEGEND

- AVR . AUTOMATIC VOLTAGE REGULATOR
- E/G ENGINE GENERATOR
- HF HIGH FREQUENCY
- kVA KILO VOLT AMPERE
- TFS TRANSFER SWITCH
- TRX TRANSCIVER (ING)
- V VOLT
- W WIRE
- Ø PHASE

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DATE July 17, 2001	DRAWING TITLE POWER BLOCK DIAGRAM	SHEET NO 1/1
SCALE No Scale	SITE NAME AGATS	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, A, G, T, -, 2, 2, 1, -, 6, 1	
- PT. Aneka Asia Buana		

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

4th-A Class Coast Station Bade (Coast Station No. 222)

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	BADE		
	CLASS	4th-A	NO.	222

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Sagu Bade			139° 35' 49" E	07° 09' 52" S

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Merauke [Taking time 10.00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	17,925
By Air	to Bade [Taking time 1:00 hr.]	<input type="checkbox"/> Paved	<input checked="" type="checkbox"/> Medium	<input checked="" type="checkbox"/> Motel	
By Car	to Location [Taking time: 0.05 hr.]	<input checked="" type="checkbox"/> Unpaved road	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input checked="" 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"/> Tide	<input type="checkbox"/>	<input checked="" type="checkbox"/> Lightning system
Altitude	1.00 M		Telephone Lines	<input checked="" type="checkbox"/>	<input type="checkbox"/> Feeder Cable Way
Land area	3,000 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	220 V	Good Bad
Structure	Concrete	Phase	1	1	<input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System
Type of roof	Ardex	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	220 V ± 10 %		Day tank
Flooring	Ceramic	Availability of power per day	8 Hours	8 Hours	6 Liter
Room Area (m ²)		Power interruption /month	4 Times	E/G Stand-by System	
Operation room	13.50	Total interpt hours /month	8 Hours	<input checked="" type="checkbox"/>	Single System
E / G room	20.00	Max. interpt hours at once	16 Hours	<input type="checkbox"/>	Dual System
Remark					

4. OPERATION AND MAINTENANCE	5. PERSONNEL FORMATIONS				
Actions taken in equipment failure					
Restoration flow	Repaired in Merauke Coast Station				
Examples of major failure	Chief				
Sufficiency of spares	Operator (skilled)				
	Technician (skilled)				
	Administrator				
	T o t a l				
Records of damages		Environmental Conditions			
<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					
Institutional and Human Statuses		Training Record			
1 Budget	<input type="checkbox"/> Sufficient	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Insufficient	Course	Class
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough	Location	Period
3 Measuring eqpt /tools	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough	Trainee	
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	BADE		
	CLASS	4th-A	NO.	222

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			

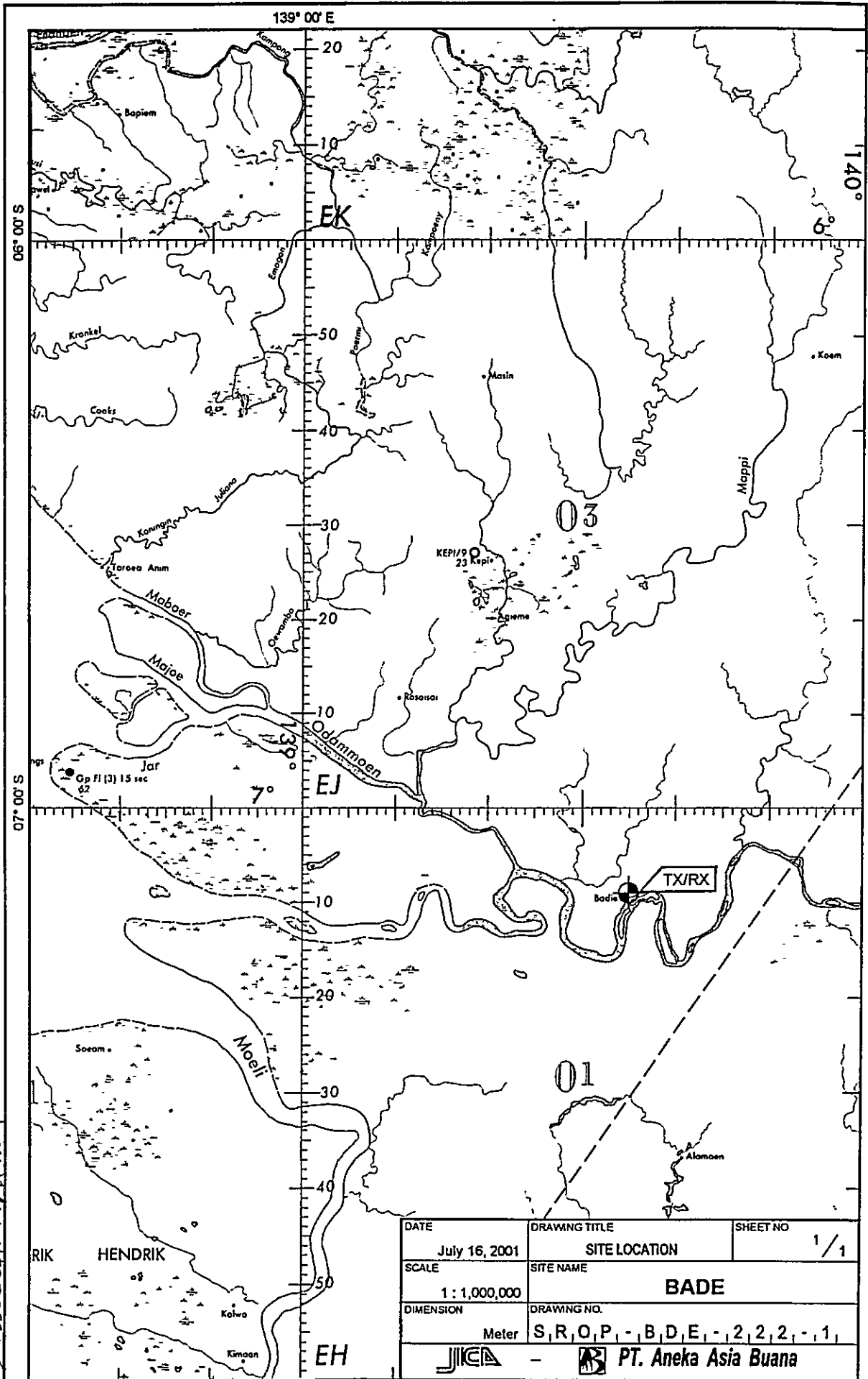
7. COMMENTS	
Suggestion	Bade Coast Station Building Construction Project Year 1996/1997 is not completed by Telecommunication facility, and for the time being, operational used borrowing equipment
Remarks	

INVENTORY

Site Name: BADE

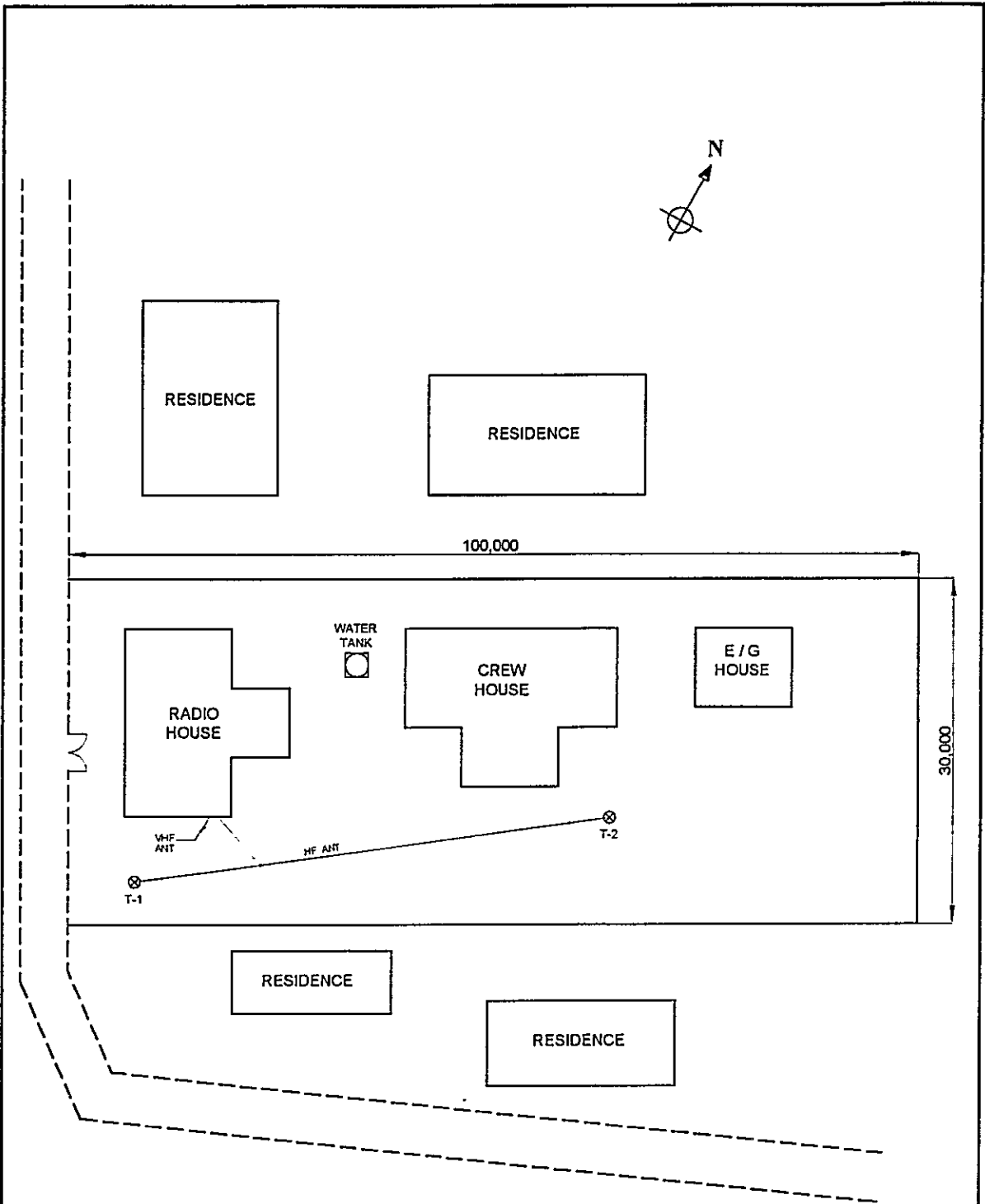
BDE-222- (1 / 1)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		Transmitter	M700	2865	ICOM		-	-	Borrow
1		HF Transceiver							
1-2		VHF System							
1		VHF Transceiver	JVH 207 PS	CB 56500	JRC	1973	-	-	Borrow
2		Tower & Antenna System							
2-1		Tower & Mast							
1		15 mH Pipe Guy Mast		2		1996	-	-	Good
2		6 mH Pipe Mast		1		1996	-	-	Good
2-2		Antenna System							
1		Double Antenna		1		1996	-	-	Good
2		VHF Antenna		1	JRC	1973	-	-	Borrow
3		Power Supply Equipment							
3-1		UPS & AVR System							
1		Stabilizer 110V/220V 1kVA	AR-500H		AECO		-	-	Good
2		HF Power Supply	03G-PS		STANDARD		-	-	Good
3		VHF Power Supply	NBA-848A	CB 56504		1973	-	-	Borrow
4		Accu Charger		1	DELTA		-	-	Good
5		Accumulator	N-100AH		GS	2000	-	-	Good
3-2		Engine Generator							
1		Engine 6 5 HP	TF 65H	65611744	YANMAR	1996	-	-	Good
2		Generator 3kVA	ST-3kw	7444	SHANTAU	1996	-	-	Good
4		Measuring Equipment							
1		Tester		1			-	-	Damage
5		Others							
1		Fan		2	MASPION		-	-	Good



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DATE	DRAWING TITLE	SHEET NO
July 16, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 1,000,000	BADE	
DIMENSION	DRAWING NO.	
Meter	S, R, O, P, - , B, D, E, - , 2, 2, 2, - , 1	



LEGEND

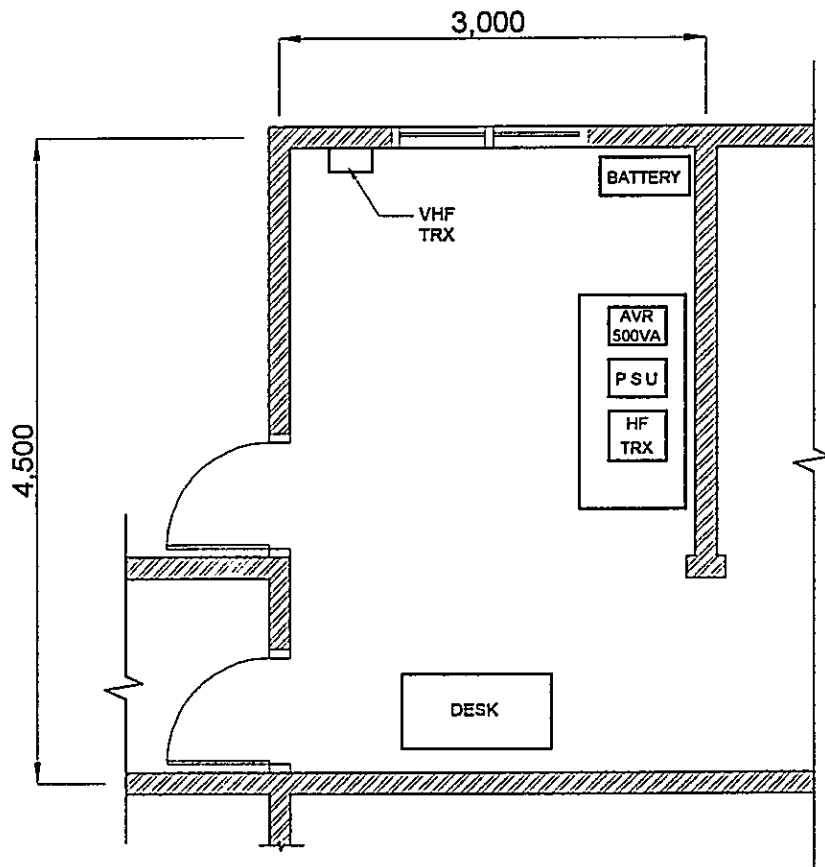
- E/G ENGINE GENERATOR
- kVA KILO VOLT AMPERE

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APPROVED BY JICA

[Signature]

DATE	DRAWING TITLE	SHEET NO
August 03, 2001	ANTENNA LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 250	BADE	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, -, B, D, E, -, 2, 2, 2, -, 2,	
- PT. Aneka Asia Buana		

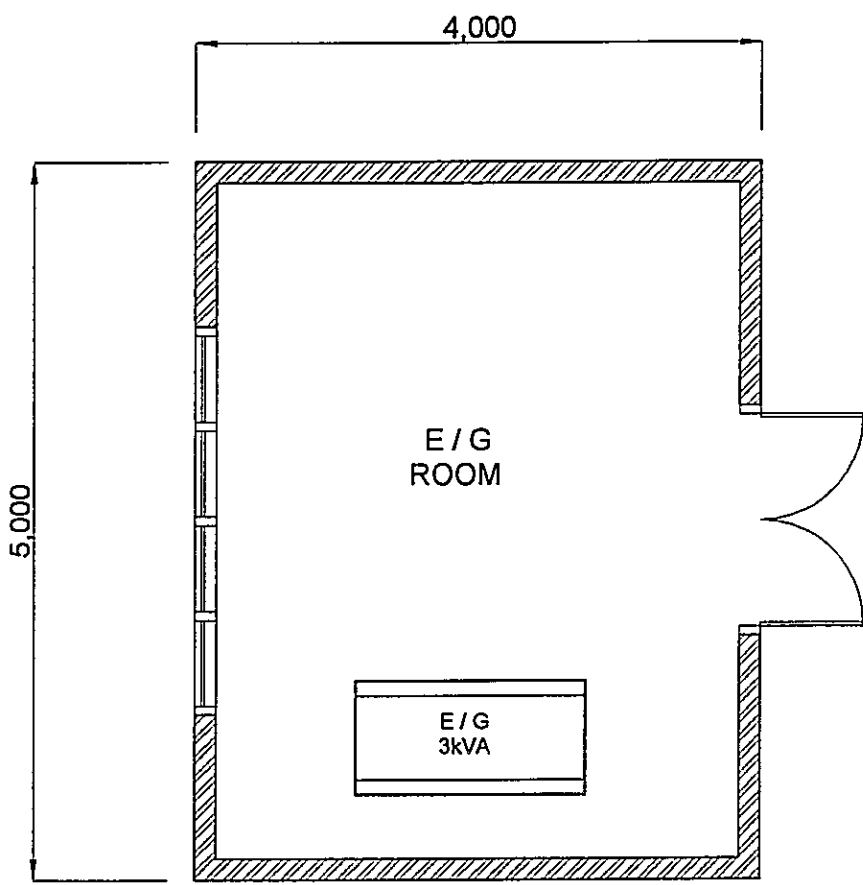


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 APPROVED BY: *[Signature]* JICA

LEGEND

- AVR AUTOMATIC VOLTAGE REGULATOR
- HF HIGH FREQUENCY
- PSU POWER SUPPLY UNIT
- TRX TRANSCEIVER (ING)
- VHF VERY HIGH FREQUENCY

DATE August 03, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT	SHEET NO 1/1
SCALE 1 : 50	SITE NAME BADE	
DIMENSION Milimeter	DRAWING NO S, R, O, P, - , B, D, E, - , 2, 2, 2, - , 3, 1	
- PT. Aneka Asia Buana		



LEGEND

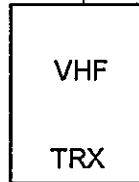
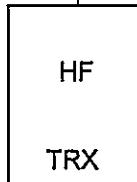
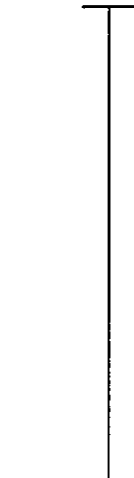
E/G : ENGINE GENERATOR
 kVA : KILO VOLT AMPERE

DRAWN BY AAB
 APPROVED BY JICA:

DATE	DRAWING TITLE	SHEET NO
August 03, 2001	E/G FLOOR LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 50	BADE	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, - B, D, E, - 2, 2, 2, - 4,	
- PT. Aneka Asia Buana		

HF ANT

VHF ANT





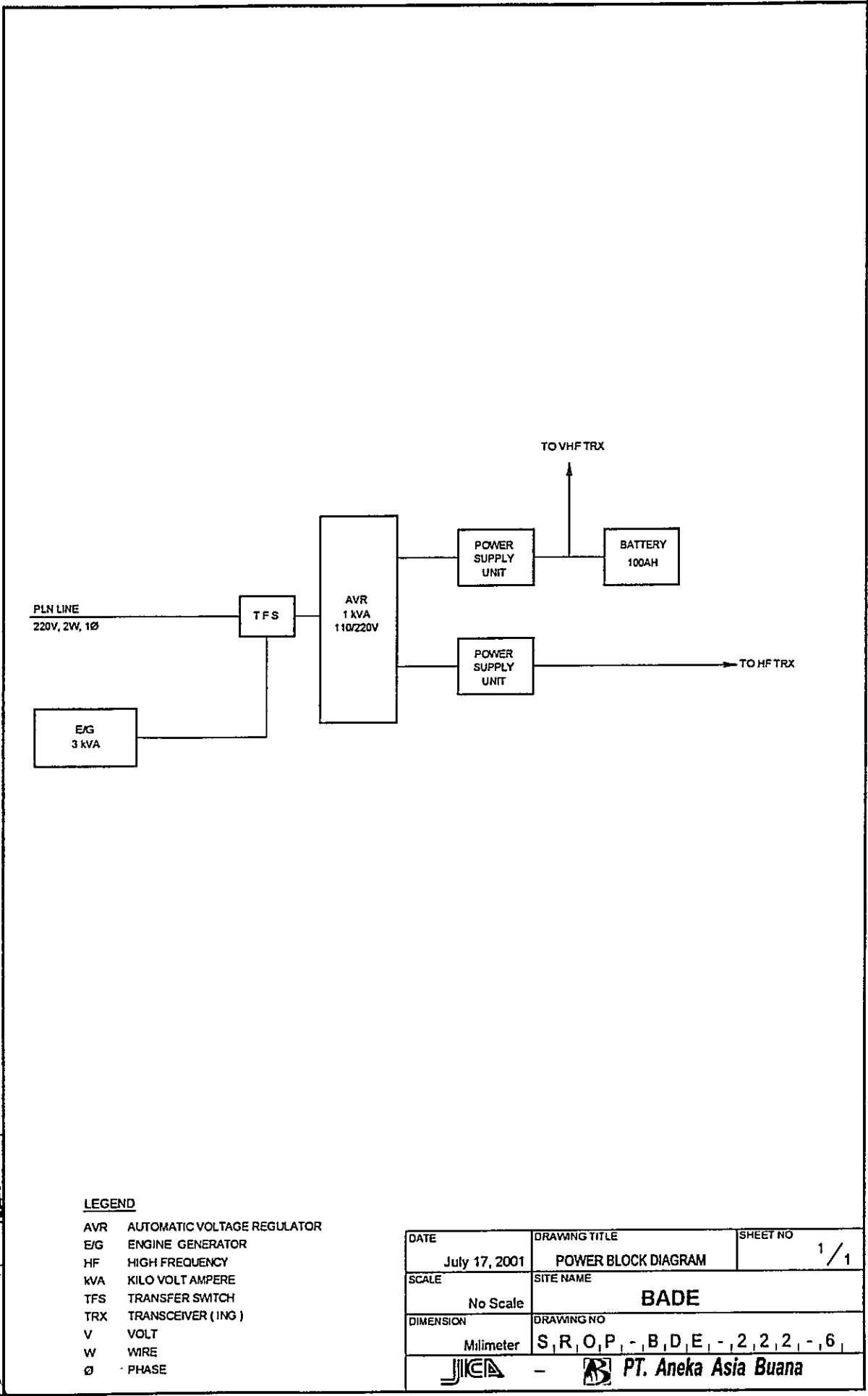
LEGEND

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

APPROVED BY ICA.

 DRAWN BY AAB


DATE July 17, 2001	DRAWING TITLE SYSTEM BLOCK DIAGRAM	SHEET NO 1 / 1
SCALE No Scale	SITE NAME BADE	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, B, D, E, -, 2, 2, 2, -, 5,	
 -  PT. Aneka Asia Buana		



LEGEND

- AVR AUTOMATIC VOLTAGE REGULATOR
- E/G ENGINE GENERATOR
- HF HIGH FREQUENCY
- kVA KILO VOLT AMPERE
- TFS TRANSFER SWITCH
- TRX TRANSCEIVER (ING)
- V VOLT
- W WIRE
- Ø PHASE

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DATE	DRAWING TITLE	SHEET NO
July 17, 2001	POWER BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	BADE	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, - B, D, E, - 2, 2, 2, - 6	
- PT. Aneka Asia Buana		

