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

4th-A Class Coast Station

Namlea

(Coast Station No. 200)

Table of Content

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

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	NAMLEA		
CLASS	4th-A	NO.	200

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelabuhan			127° 05′ 42″ E	03° 16′ 32″ S

2. GENERAL CONDITIONS

Moving from Jakarta				Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Ambon	[Taking time:	5.0 hr.]	☐ Highway	☐ Heavy	☐ Hotel	
By Air	to Namlea	[Taking time:	1.00 hr.]	☑ Paved	☐ Medium	☑ Motel	
By Car	to Location	[Taking time.	0:30 hr.]	☐ Unpaved road	☑ Light		
					☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system	
☑ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes	No
☐ Slope	☑ Ordinary	☐ Gravel	☐ Flood Tide	☑ Antenna	☐
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐ Towers (Masts)	☑
☐ Basin	☐ Clay		☐ Ground Subsidence	☐ Grounding system	☑
☐ Valley	☐ Sandy			☐ Lightning system	☑
Altitude	5.00 M		**Telephone Lines**	☐ Feeder Cable Way	☑
Land area	3,000 m²		☐ Lines	☐ City water	☑

3.2 Building Conditions

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

3.3 Power Source

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

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

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

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

E/G Stand-by System

☐ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Send to Ambon to be repaired
Examples of major failure	Damaged by lightening and Voltage up and down
Sufficiency of spares	

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

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

5. PERSONNEL FORMATIONS

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

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	NAMLEA		
CLASS	4th-A	NO.	200

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 Telecommunication is very important in Maluku, because: Maluku contents of Islands which separated by Ocean, and 90% of Maluku area is Ocean Transportation between Islands by using ships, Maritime Telecommunications used as ships navigation monitoring
Remarks	

INVENTORY

Site Name: Namlea

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		MF/HF System							
1		SSB Transceiver	NS-11A		Furuno				Damaged
2		**Power Supply Equipment**							
2-1		Power Adaptor & UPS							
1		Power Supply Unit							Good
2		Battery Charger							Good
3		Battery							Damaged

STATUS OF TROUBLES

SITE NAME : NAMLEA **NML-200-(1/1)**

Item / Equipment	SSB Transceiver / Furuno NS-11A		
Manufacturer	Furuno		
Manufacturer in year	-		
Defective panel / unit	Tube Lamp		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☑ Aging		☑ Immediacy
	☐ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☑ Lack of Spares		☐ Unnecessary
	☐ Others		
General Comment for Maintenance:			

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Namlea

NML-200-(1/1)

Call Sign : Mobile Service :
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Fix Service				
1	6 926,0	J3E	150		
2	9 925,0	J3E	150		
3	9 910,0	J3E	150		
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
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16					
17					
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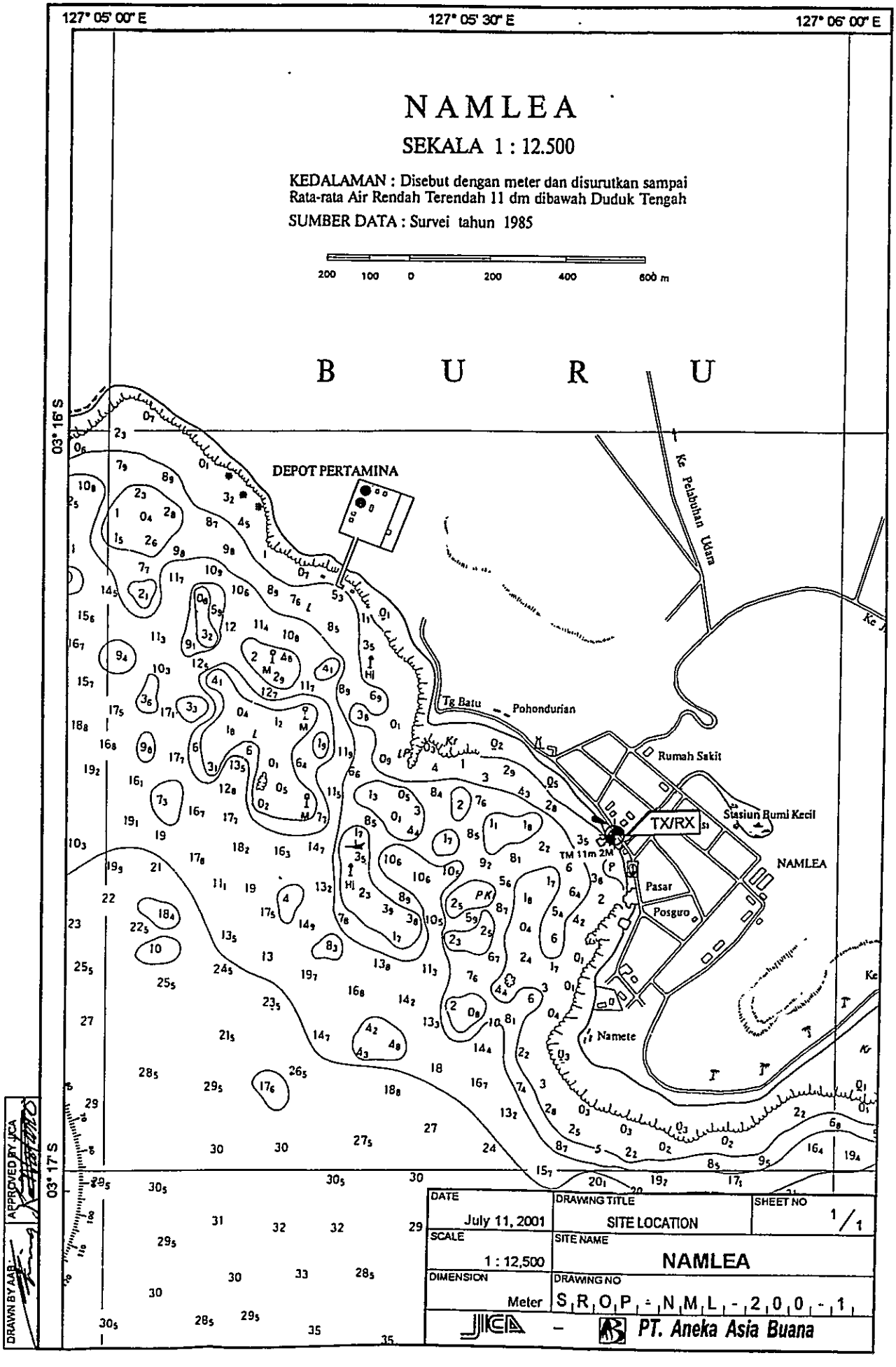
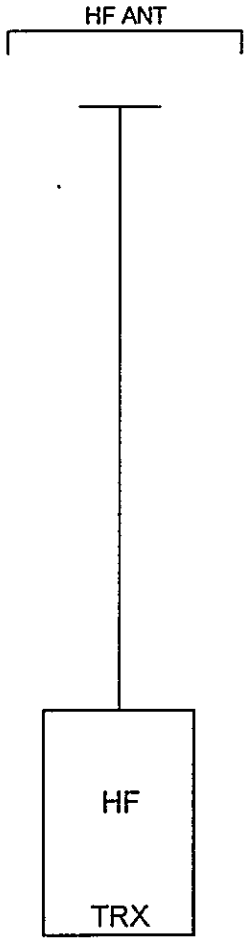
21					
22					
23					
24					
25					
26					
27					


127° 05' 00" E
127° 05' 30" E
127° 06' 00" E
03° 16' S
03° 17' S
NAMLEA
SEKALA 1 : 12.500
KEDALAMAN : Disebut dengan meter dan disurutkan sampai
Rata-rata Air Rendah Terendah 11 dm dibawah Duduk Tengah
SUMBER DATA : Survei tahun 1985
200 100 0 200 400 600 m
B U R U
DEPOT PERTAMINA
Ke Pelabuhan Udara
Tg Batu
Pohondurian
Rumah Sakit
Stasiun Bumi Kecil
TX/RX
NAMLEA
Pasar
Posguo
Namete
DRAWN BY AAB
APPROVED BY JICA
DATE
July 11, 2001
DRAWING TITLE
SITE LOCATION
SHEET NO
1 / 1
SCALE
1 : 12,500
SITE NAME
NAMLEA
DIMENSION
Meter
DRAWING NO
S R O P - N M L - 2 0 0 - 1
JICA
PT. Aneka Asia Buana

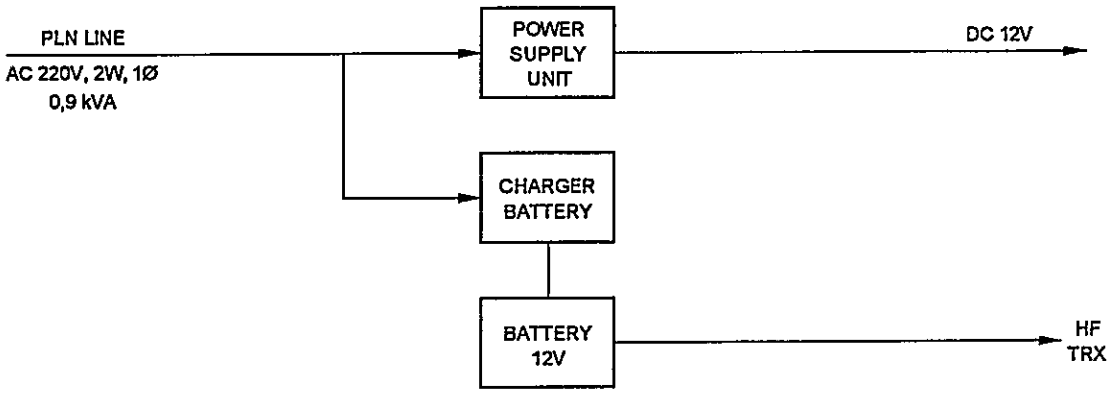


LEGEND

ANT : ANTENNA
HF : HIGH FREQUENCY
TRX : TRANSCEIVER

DRAWN BY AAB
APPROVED BY JICA

DATE: Sept 27 , 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: NAMLEA	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,N,M,L,-,2,0,0,-,5,	
JICA – PT. Aneka Asia Buana		



LEGEND

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

DATE: Sept 27, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: NAMLEA	
DIMENSION: Milimeter	DRAWING NO: SROP-NML-200-6	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB

APPROVED BY JICA:

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

4th-A Class Coast Station
Sanana
(Coast Station No. 201)

Table of Content

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☒ Not Available in this list
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JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	SANANA		
CLASS	4th-A	NO.	201

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Fogi	929-21497		125° 58′ 02″ E	02° 03′ 02″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Ambon	[Taking time: 5:00 hr.]	☐ Highway	☐ Heavy	☐ Hotel	
By Air	to Sanana	[Taking time: 1:00 hr.]	☑ Paved	☐ Medium	☑ Motel	
By Car	to Location	[Taking time: 0:30 hr.]	☐ Unpaved road	☑ Light		
				☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
☑ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑ ☐ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☑ ☐ Towers (Masts)
☐ Basin	☐ Clay	☑ Dry-soil	☐ Ground Subsidence	☑ ☐ Grounding system
☐ Valley	☐ Sandy			☑ ☐ Lightning system
Altitude	5.00 M		**Telephone Lines**	☑ ☐ Feeder Cable Way
Land area	20,000 m²		☑ 1 Lines	☐ ☑ City water

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Zinc
Type of ceiling	Triplex
Type of wall	Brick
Wall finish	Mortar
Flooring	Tile
Room Area (m²)	
Operation room	26.00
E / G room	20.00
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220/380 V
Phase	1	1
Wire	2	4
kVA	0.5	10

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

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

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

E/G Stand-by System

☑ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure

Restoration flow	Send to Ambon to be repaired
Examples of major failure	Antenna/Amplifier damaged
Sufficiency of spares	

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

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

5. PERSONNEL FORMATIONS

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

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	SANANA		
CLASS	4th-A	NO.	201

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 is very important in Maluku, because: Maluku consits of Islands which separated by Ocean, and 90% of Maluku area is Ocean Transportation between Islands by using Ship, Maritime Telecommunication used as ship navigation monitoring
Remarks	

INVENTORY

Site Name: Sanana

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**MF/HF System**							
1-1-1		**MF/HF Transceiver**							
1		SSB Radio Telephone		5320078	Furuno	1980			Damaged
1-1-2		**MF/HF Operation Console**							
1		MF/HF Console	RH-16-3	013	Sailor	1996	F-TA-193: PH3		Good
2		MF/HF Equipment							
		600 W MF/HF Transmitter	T2131	517357	Sailor	1996	F-TA-193: PH3		Good
		600 W MF/HF Transmitter	T2131	517368	Sailor	1996	F-TA-193: PH3		Good
		AC Power Supply	N2171	520998	Sailor	1996	F-TA-193: PH3		Good
		AC Power Supply	N2171	521003	Sailor	1996	F-TA-193: PH3		Good
		Antenna Coupler	AT2112	514433	Sailor	1996	F-TA-193: PH3		Damaged
		Antenna Coupler	AT2112	514434	Sailor	1996	F-TA-193: PH3		Good
		CW Unit	H2185	522727	Sailor	1996	F-TA-193: PH3		Good
		CW Unit	H2185	522728	Sailor	1996	F-TA-193: PH3		Good
3		All Wave Receiver							
		Control Unit HF1	RE2100	516640	Sailor	1996	F-TA-193: PH3		Good
		Control Unit HF2	RE2100	521654	Sailor	1996	F-TA-193: PH3		Good
		Duplex Receiver	R2120T	518079	Sailor	1996	F-TA-193: PH3		Good
		Duplex Receiver	R2120T	518076	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
4		Spot Receiver							
		MF/HF DSC W/K RX	RM2150	523157	Sailor	1996	F-TA-193: PH3		Good
		Power Supply	N2165	522779	Sailor	1996	F-TA-193: PH3		Good
5		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

INVENTORY

Site Name: Sanana

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
		CPU I/O	TT-10123		Sailor	1996	F-TA-193: PH3		Good
		Paralel	TT-101190		Sailor	1996	F-TA-193: PH3		Good
		Paralel I/O	TT-101217		Sailor	1996	F-TA-193: PH3		Good
		VHF Modem	TT-102239		Sailor	1996	F-TA-193: PH3		Good
		HF Modem	TT-1022337		Sailor	1996	F-TA-193: PH3		Good
		Modem I/O (2)	TT-102238		Sailor	1996	F-TA-193: PH3		Good
		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	3503115	Compaq	1996	F-TA-193: PH3		Good
		2) Monitor	140	532AF05CA86(	Compaq	1996	F-TA-193: PH3		Good
		Printer (H-1252A)	TT-1608C	5BAP3190006	Sailor	1996	F-TA-193: PH3		Good
		Monitor Display	TT-3602B	9603550	Sailor	1996	F-TA-193: PH3		Good
		DSC Alarm	TT-1542B	9603527	Sailor	1996	F-TA-193: PH3		Good
6		Signal Control Panel							
		Audio/Digital Matrix	MTX-1616	133	Sailor	1996	F-TA-193: PH3		Good
		Keyer	KK-1	368	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
7		Telephone Repeater (Phone Patch)							
		Radio/Tel I/F Unit	RTU-282	178	Sailor	1996	F-TA-193: PH3		Good
8		ARQ Equipment							
		Radiotelex Modem	TT-1585E	9603510	Sailor	1996	F-TA-193: PH3		Good
		ARQ Key Board	TT-1601 A	9603540	Sailor	1996	F-TA-193: PH3		Good
		Printer (H1252A)	TT-1680C	5CAP3193321K	Sailor	1996	F-TA-193: PH3		Good
		Telex Alarm	TT-1542B	9603528	Sailor	1996	F-TA-193: PH3		Good
1-2		**VHF System**							
1		Operation Console	RH-16-1	013	Sailor	1996	F-TA-193: PH3		Good
2		Multichannel VHF Transceiver							
		VHF Transceiver	RT 2048	523727	Sailor	1996	F-TA-193: PH3		Good

INVENTORY

Site Name: Sanana

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
		VHF Transceiver	RT 2048	523737	Sailor	1996	F-TA-193: PH3		Good
		VHF Transceiver	RT 2048	523732	Sailor	1996	F-TA-193: PH3		Good
		VHF Transceiver	RT 2048	523729	Sailor	1996	F-TA-193: PH3		Good
		Linier Power Amplifier	A2080BE-H	275	Sailor	1996	F-TA-193: PH3		Good
		Linier Power Amplifier	A2080BE-H	291	Sailor	1996	F-TA-193: PH3		Good
		Linier Power Amplifier	A2080BE-H	225	Sailor	1996	F-TA-193: PH3		Good
		Linier Power Amplifier	A2080BE-H	571	Sailor	1996	F-TA-193: PH3		Good
		Duplex Filter		594146	Sailor	1996	F-TA-193: PH3		Good
		Duplex Filter		594147	Sailor	1996	F-TA-193: PH3		Good
2		CH-70 VHF T/R							
		VHF Transceiver	RT2048	523707	Sailor	1996	F-TA-193: PH3		Good
		High Low I/F Unit (2)			Sailor	1996	F-TA-193: PH3		Good
		RF Power Amplifier	A2080BE-H	287	Sailor	1996	F-TA-193: PH3		Good
		AC Power Supply	N163S	S16307	Sailor	1996	F-TA-193: PH3		Good
		DC Power Supply	N420	N42007	Sailor	1996	F-TA-193: PH3		Good
		AC Power Supply	PSF-1	TWR/12770/037	Sailor	1996	F-TA-193: PH3		Good
3		Term.Equipt. (DSC VHF/HF)							
		Audio/Digital Matrix	MTX-1616	144	Sailor	1996	F-TA-193: PH3		Good
4		Telephone Repeater							
		Radio/Tel I/F Unit	RTU-280	192	Sailor	1996	F-TA-193: PH3		Good
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
1		18mH Antenna Tower							Damaged
2		30mH Self Supporting Structure	AT30SS		Sailor	1996	F-TA-193: PH3		Good
3		Lightning Protector			Sailor	1996	F-TA-193: PH3		Good
4		Grounding			Sailor	1996	F-TA-193: PH3		Good
2-2		**Antenna System**							
1		Inverted L Antenna TX (2)	HF7		Sailor	1996	F-TA-193: PH3		Good
2		D/D Antenna (1)	E-22		Sailor	1996	F-TA-193: PH3		Good
3		VHF Antenna (3)	VHF 3		Sailor	1996	F-TA-193. PH3		Good
2-3		**Antenna Selector**							
1		Antenna Distributor	AAD10/1/A-J1-6G	001013	Sailor	1996	F-TA-193 PH3		Good

INVENTORY

Site Name: Sanana

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3		**Power Supply Equipment**							
3-1		**Power Distribution Board**							
1		7.5kVA PDB				1996	F-TA-193: PH3		Good
2		10 kVA Control Panel (AMF)	PL 95-7s	9506		1996	F-TA-193: PH3		Good
3-2		**Isolation Transformer**							
1		7.5kVA, 4W, 3P	IST 10P3	9511		1996	F-TA-193: PH3		Good
3-3		**Step-Up Transformer**							
1		9.9kVA, 4W, 3P	STU 10P3	9505		1996	F-TA-193: PH3		Damaged
3-4		**UPS & AVR**							
1		AVR · 7.5kVA, 4W, 3P	AVR7P3	9511		1996	F-TA-193: PH3		Good
2		Charger	SM-245D						Damaged
3		Battery 12V-200AH			Kobe				Damaged
		Battery 12V-100AH			GS				Damaged
3-4		**Engine Generator**							
1		10 kVA E/G Single Standby System				1996	F-TA-193. PH3		Good
		Engine	EG 10 RA	9506	Kubota	1996	F-TA-193: PH3		Good
		Generator	V-1505E	664661	St.Ford	1996	F-TA-193: PH3		Good
		E/G Panel	BC1-164-D	9508		1996	F-TA-193: PH3		Good
2		Fuel System							
		Starting, Fuel, Exhaust System				1996	F-TA-193: PH3		Good
		Fuel Control Unit				1996	F-TA-193: PH3		Good
		100 L Fuel Day Tank				1996	F-TA-193: PH3		Good
		1000 L Fuel Storage Tank				1996	F-TA-193. PH3		Good
4		**Measuring Equipment**							
1		Analog Oscilloscope	PM3065	DM639010	Sailor	1996	F-TA-193: PH3		Good
		Probe/Lead (2)							
		Power Cable (1)							
		Black Cover (1)							
		Operation Manual							
2		Multimeter	Fluke 87	64510710	Sailor	1996	F-TA-193: PH3		Good
3		Multimeter	Fluke 88	64460310	Sailor	1996	F-TA-193: PH4		Good

INVENTORY

Site Name: Sanana

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
4		Multimeter Test Lead Set (3x1) Hoester House Yellow (3x1) User Manual (3x2)	Fluke 89	64510750	Sailor	1996	F-TA-193: PH5		Good
5		Insulation Tester Line Plobe (1) Earth Plobe (1) Carrying Case x1) Instruction Manual (1)	2406A	65WA1530	Sailor	1996	F-TA-193: PH3		Good
6		RF Coaxial Load Resistor	8201RF	17097	Sailor	1996	F-TA-193: PH3		Good
7		RF Coaxial Load Resistor Connection Cable (1)	8201RF	17077	Sailor	1996	F-TA-193: PH3		Good
5		**Others**							
1		Telephone set with call timer (2)			Sailor	1996	F-TA-193: PH3		Good
2		Headset (2)	DM 811		Sailor	1996	F-TA-193: PH3		Good
3		Hand set (6)			Sailor	1996	F-TA-193: PH3		Good
4		Desk Microphone (2)	DM 6500		Sailor	1996	F-TA-193: PH3		Good
5		Quartz Clock			Sailor	1996	F-TA-193: PH3		Good
6		Services Engineers Kit	RS 541-365		Sailor	1996	F-TA-193: PH3		Good
7		Mouse			Sailor	1996	F-TA-193: PH3		Good
8		Chair			Sailor	1996	F-TA-193: PH3		Good

STATUS OF TROUBLES

SITE NAME : SANANA **SNN-201-(1/1)**

Item / Equipment	Antenna Coupler / AT-2112		
Manufacturer	Sailor		
Manufacturer in year	1995		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☐ Aging		☑ Immediacy
	☑ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☑ Lack of Spares		☐ Unnecessary
	☐ Others		
General Comment for Maintenance:			

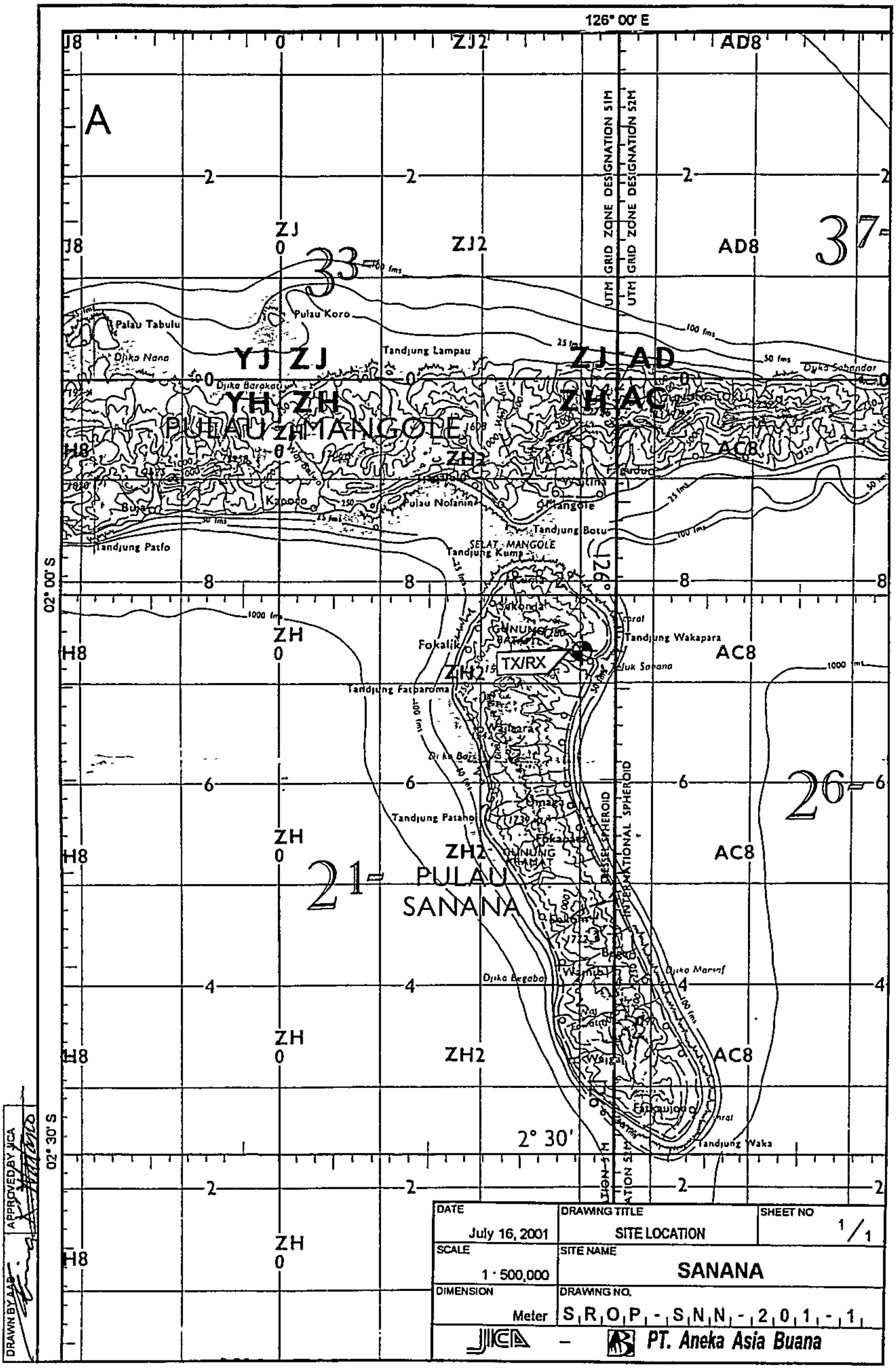
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Sanana

SNN-201-(1/1)

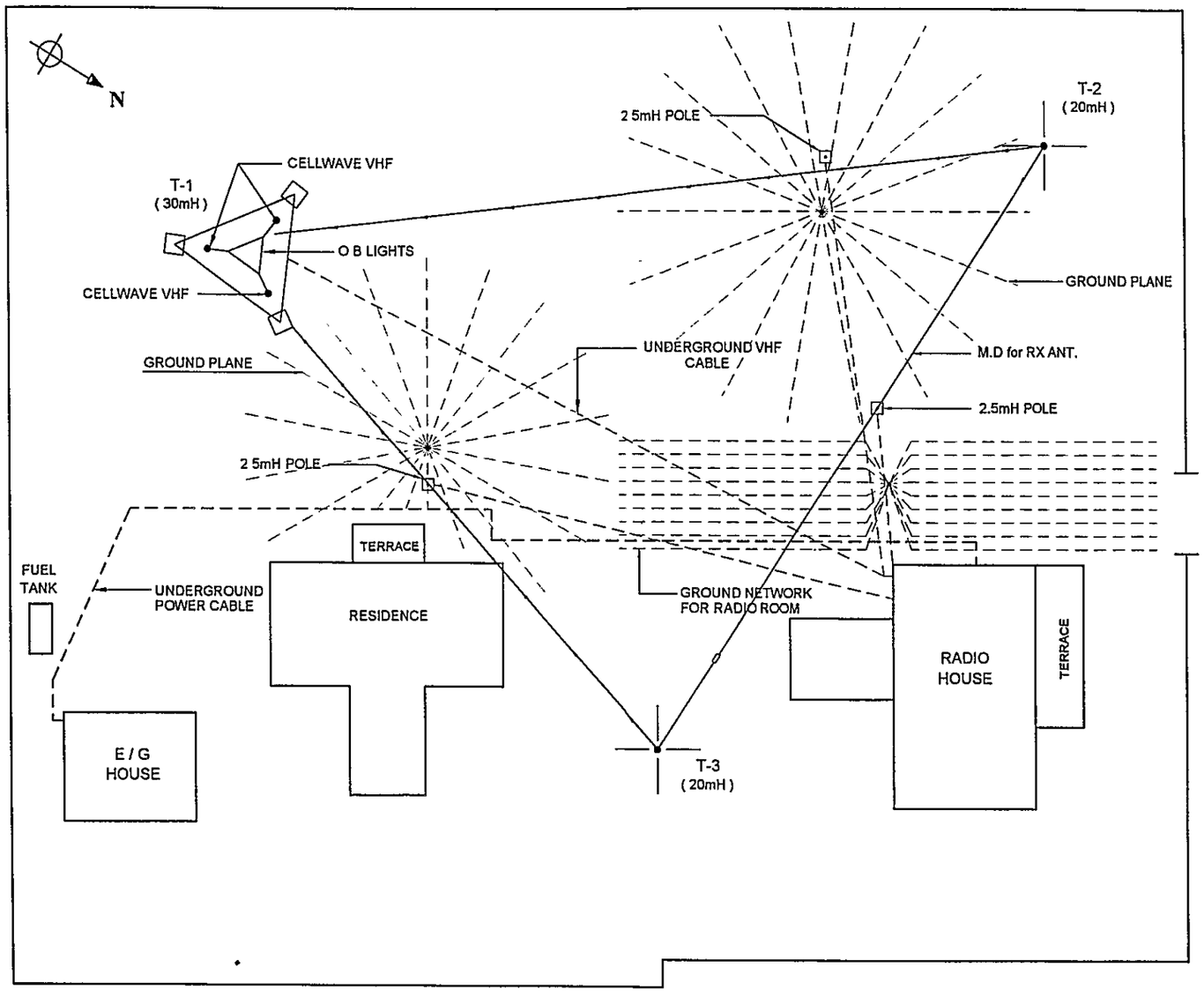
Call Sign : Mobile Service : PKE.37
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2.174,5	F1B	500		
2	2 182,0	J3E	500		
3	6 215,0	J3E	500		
4	2.187,5	F1B	500		
	VHF Service				
5	Channel-16	G3E	50		
6	Channel-70	G3E	50		
	Fix Service				
7	6.926,0	J3E	600		
8	3 516,0	J3E	600		
9	9 925,0	J3E	600		
10	10 225,0	J3E	600		
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					



DATE	DRAWING TITLE	SHEET NO
July 16, 2001	SITE LOCATION	1/1
SCALE	SITE NAME	
1 : 500,000	SANANA	
DIMENSION	DRAWING NO.	
Meter	S R O P - S N N - 2 0 1 - 1	

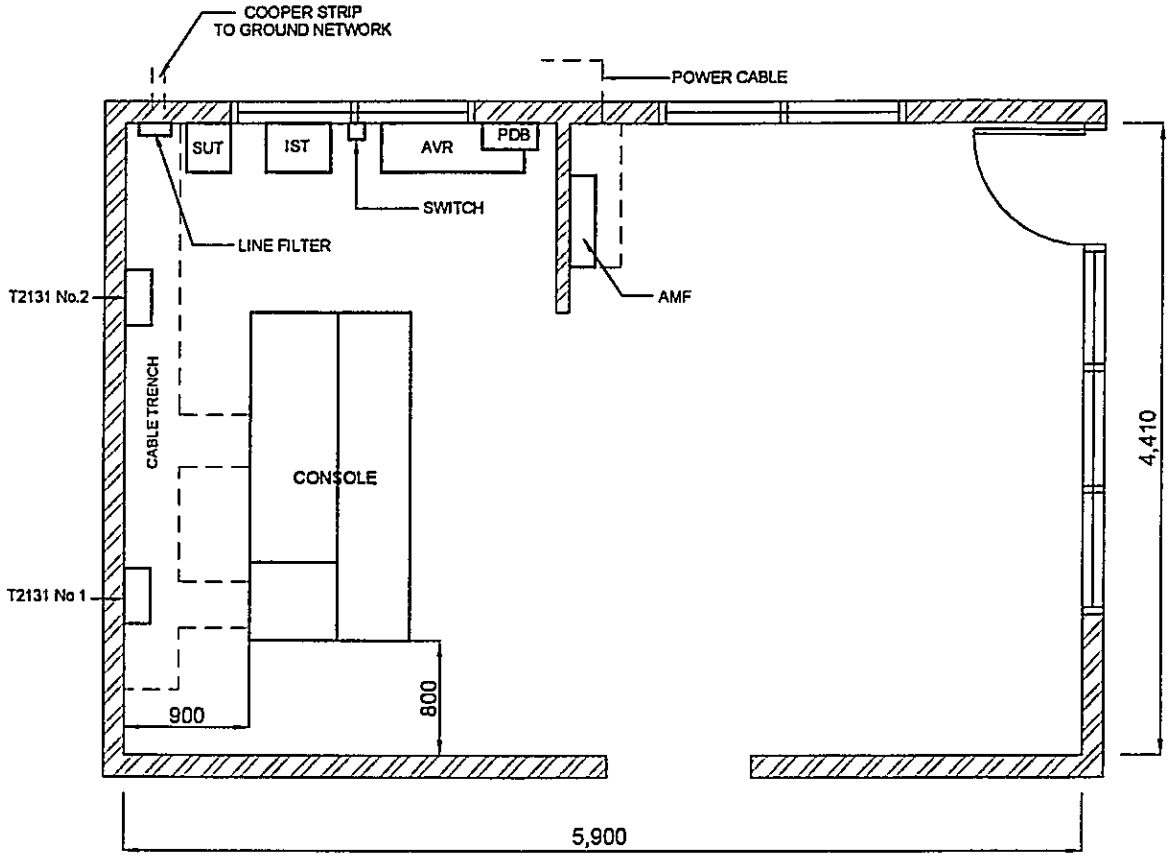
JICA - PT. Aneka Asia Buana



DRAWN BY AAB | APPROVED BY JICA

DATE: July 13, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 200	SITE NAME: SANANA	
DIMENSION: Milimeter	DRAWING NO: SROP-SNN-2011-2	

JICA – PT. Aneka Asia Buana



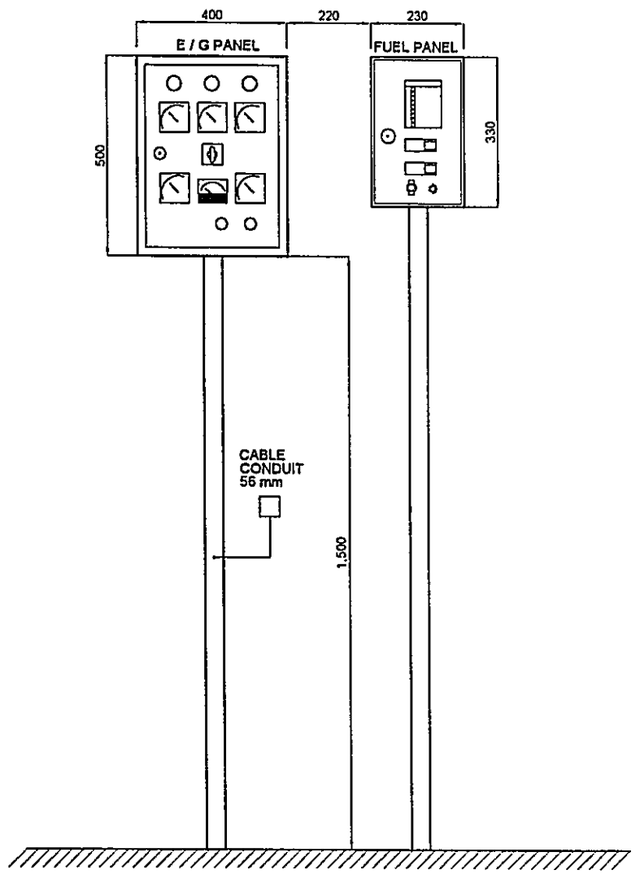
LEGEND

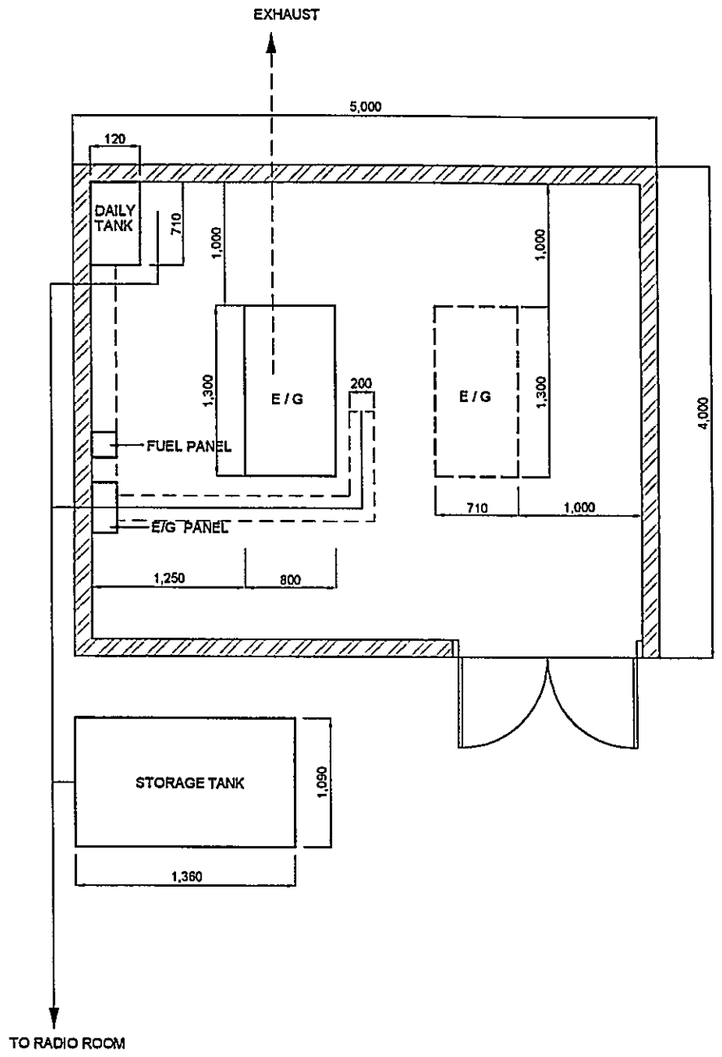
AVR . AUTOMATIC VOLTAGE REGULATOR
IST . ISOLATION TRANSFORMER
PDB : POWER DISTRIBUTION BOARD
SUT . STEP - UP TRANSFORMER

DATE: July 13, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: SANANA	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,S,N,N,-,2,0,1,-,3,	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA

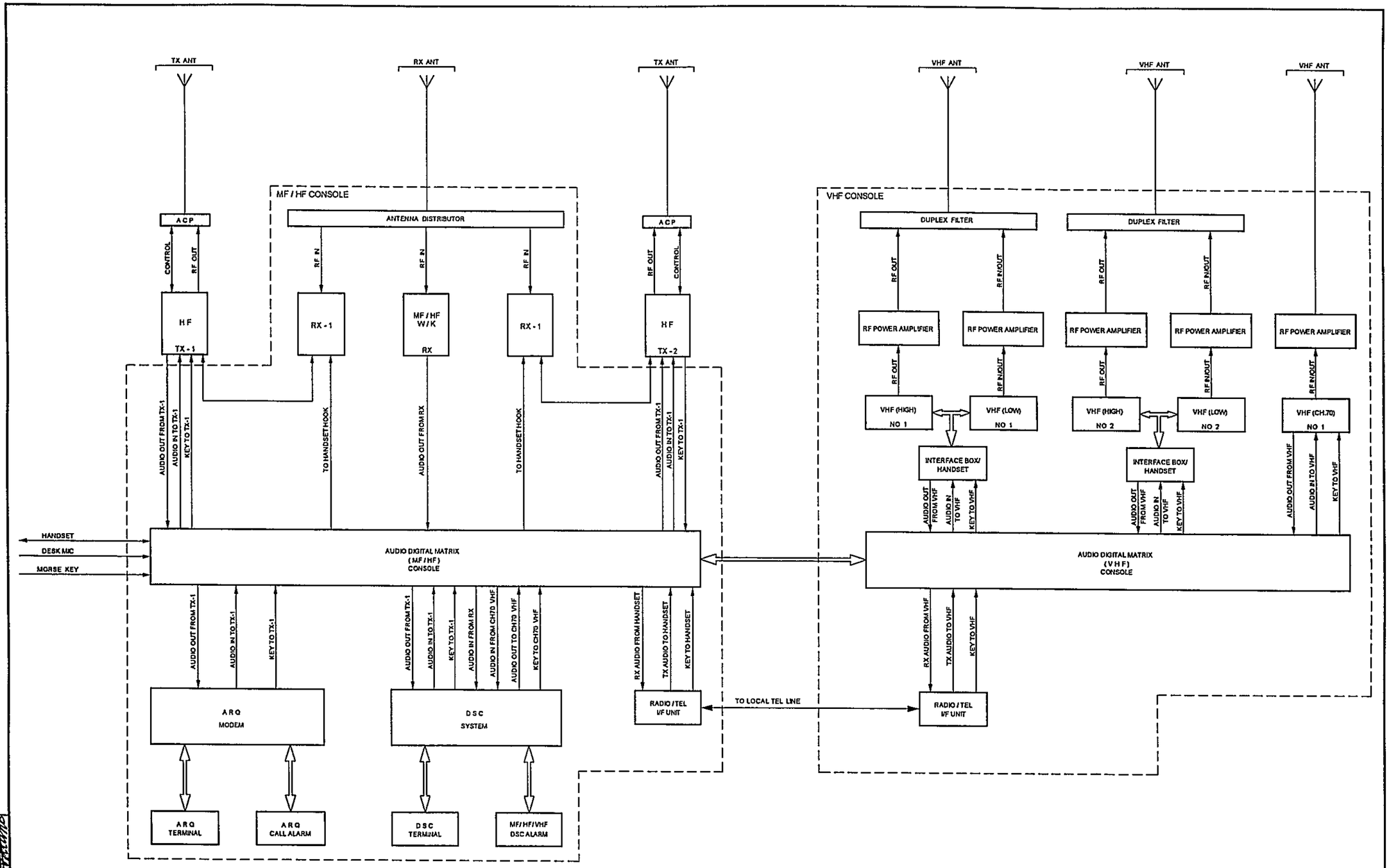
DRAWN BY AAB





DRAWN BY AAB
APPROVED BY JICA

DATE: July 13, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: SANANA	
DIMENSION: Milimeter	DRAWING NO.: SROP-SNN-201-4	
JICA –	PT. Aneka Asia Buana	



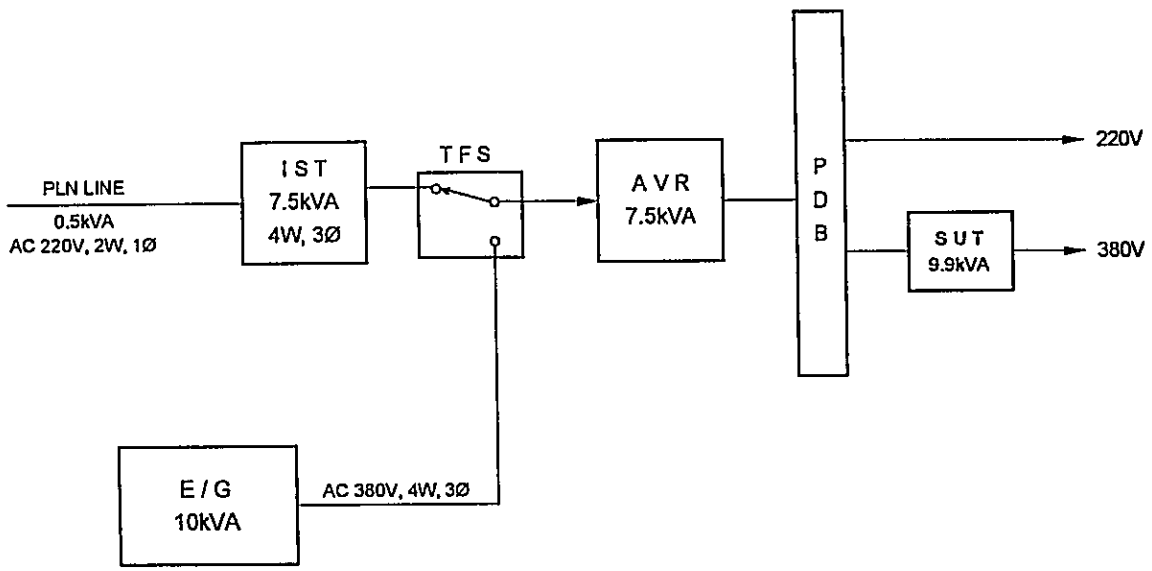
DRAWN BY AAB

APPROVED BY JICA

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: August 02, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: SANANA	
DIMENSION: Milimeter	DRAWING NO: SROP-SNN-2011-5	
JICA –	PT. Aneka Asia Buana	



LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: August 02, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: SANANA	
DIMENSION: Millimeter	DRAWING NO: SROP-SNN-201-6	
JICA – PT. Aneka Asia Buana		

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

4th-B Class Coast Station

Jailolo

(Coast Station No. 202)

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	JAILOLO		
CLASS	4th-B	NO.	202

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX				129° 46′ 10″ E	01° 09′ 22″ S

2. GENERAL CONDITIONS

Moving from Jakarta				Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Ambon	[Taking time	5.00 hr.]	☐ Highway	☐ Heavy	☐ Hotel	
By Ship	to Jailolo	[Taking time	15.00 hr.]	☑ Paved	☑ Medium	☑ Motel	
By Car	to Location	[Taking time	0:10 hr]	☐ Unpaved road	☐ Light		
					☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

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

3.2 Building Conditions

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

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	1	1
Wire	2	2
kVA	0.9	3

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

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

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

E/G Stand-by System

☑ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Send to Ambon to be repaired
Examples of major failure	Damaged by lightening
Sufficiency of spares	

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

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

5. PERSONNEL FORMATIONS

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

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	JAILOLO		
CLASS	4th-B	NO.	202

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 Telecommunication in Maluku is very important, because: Maluku consists of Islands which separated by Ocean, and 90% of Maluku area is Ocean Transportation between Island by using ship, and Maritime Telecommunication used as ship navigation monitoring
Remarks	Operated by Kanpel Staff

INVENTORY

Site Name: Jailolo

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**MF/HF System**							
1		SSB Transceiver			Spilsbury				Damaged
2		SSB Transceiver	IC-M-700		ICOM				Good
2		**Power Supply Equipment**							
2-1		**Power Adaptor & UPS**							
1		Power Supply Unit							
2		Battery Charger							
3		Battery			YUASA				
2-2		**Engine Generator**							
1		3kVA (5HP) Engine Generator	ET-300		YAMAHA				

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Jailolo

JLL-202-(1/1)

Call Sign : Mobile Service :
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Fix Service				
1	6.926,0	J3E	150		
2	5 316,0	J3E	150		
3	9 925,0	J3E	150		
4	10.225,0	J3E	150		
5					
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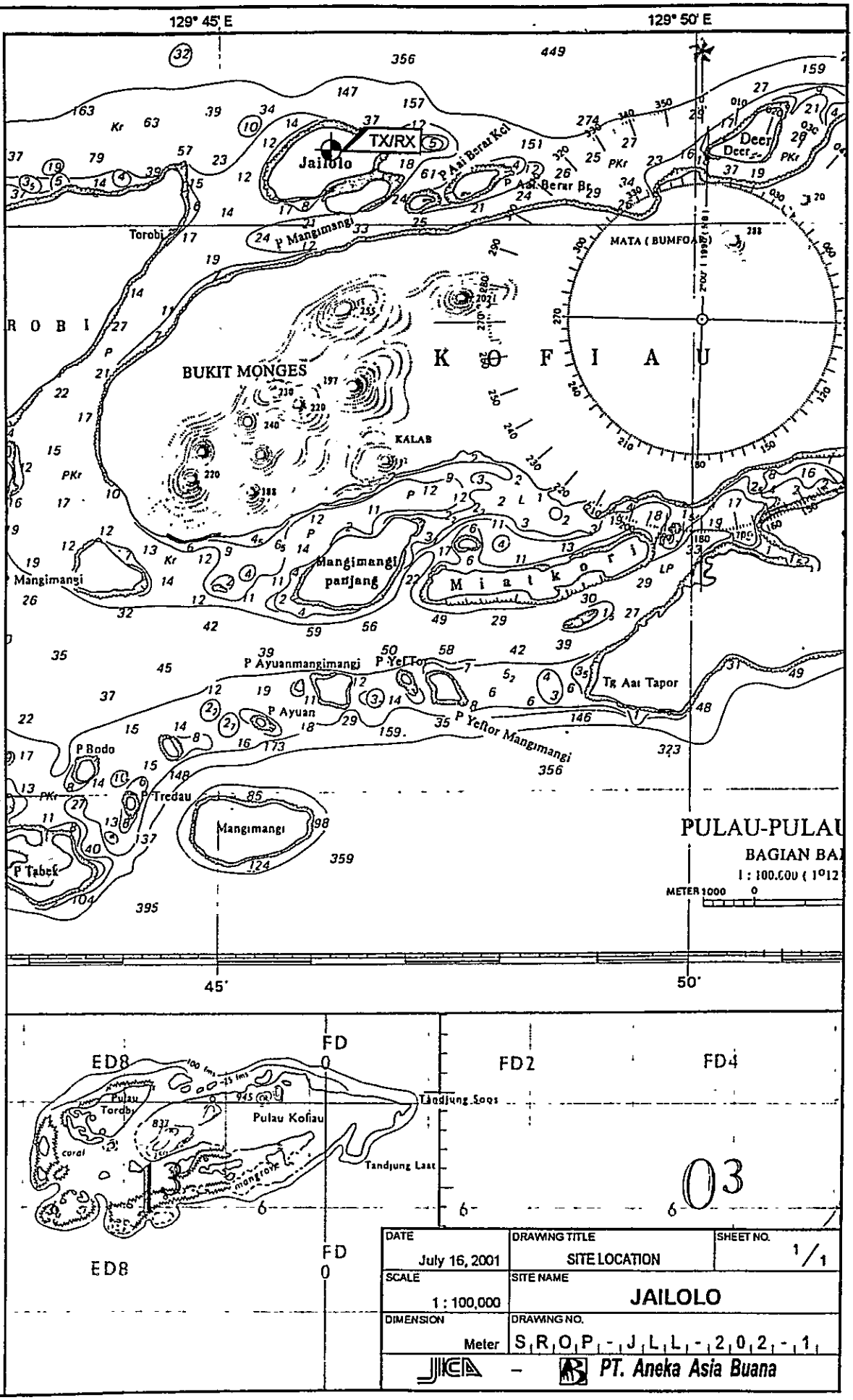
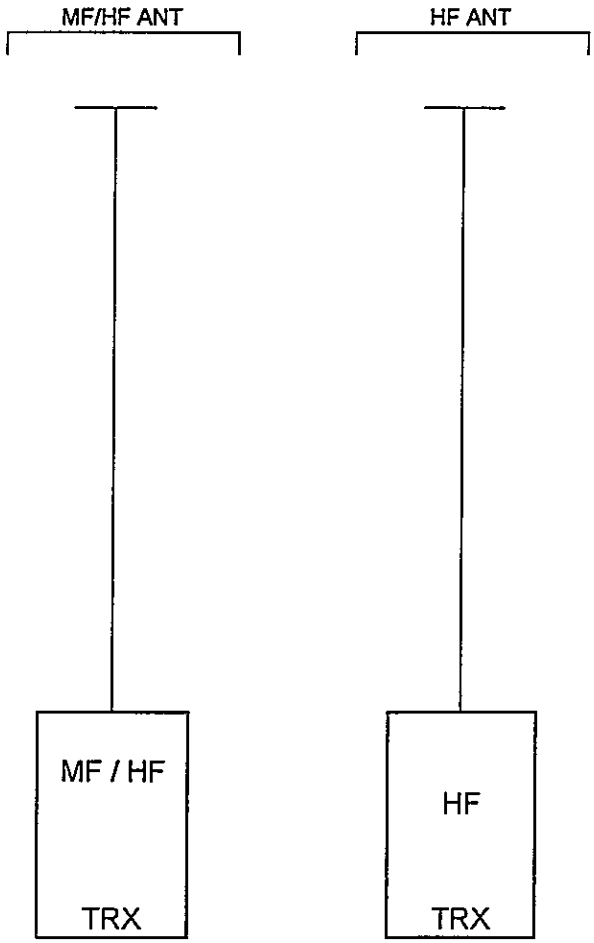


DATE: July 16, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO.: 1/1
SCALE: 1 : 100,000	SITE NAME: JAILOLO	
DIMENSION: Meter	DRAWING NO.: S,R,O,P,-,J,L,L,-,2,0,2,-,1,	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB | APPROVED BY JICA



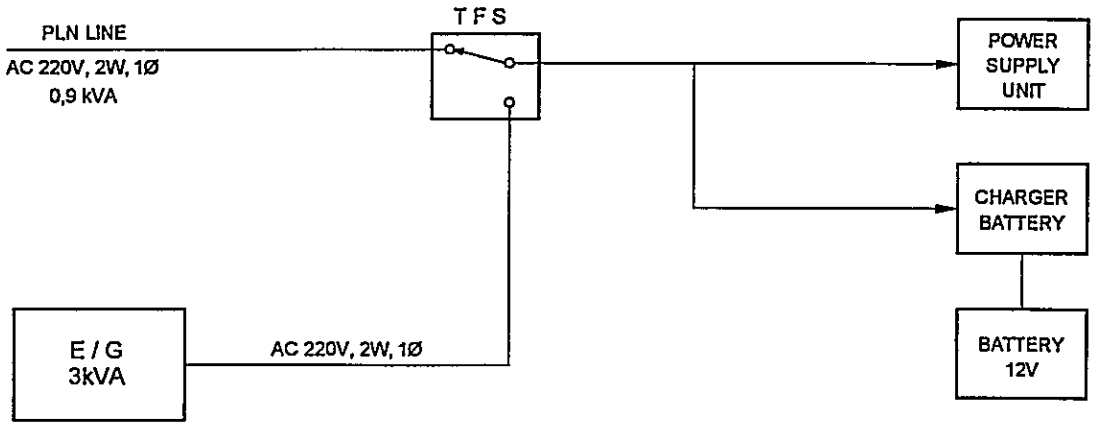
LEGEND

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

DATE: Sept 27 , 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1 / 1
SCALE: No Scale	SITE NAME: JAILOLO	
DIMENSION: Milimeter	DRAWING NO: SROP-JLL-202-5	
JICA -- PT. Aneka Asia Buana		

APPROVED BY JICA :

DRAWN BY AAB



LEGEND

AC	: ALTERNATING CURRENT
kVA	: KILO VOLT AMPERE
TFS	: TRANSFER SWITCH
V	: VOLT
W	: WIRE
Ø	: PHASE

APPROVED BY JICA :

DRAWN BY AAB

DATE: Sept 27, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: JAILOLO	
DIMENSION: Milimeter	DRAWING NO.: SROP-JLL-202-6	

JICA – PT. Aneka Asia Buana

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

4th-B Class Coast Station

Labuha

(Coast Station No. 203)

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	LABUHA		
CLASS	4th-B	NO.	203

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX				127° 28′ 33″ E	00° 37′ 46″ S

2. GENERAL CONDITIONS

Moving from Jakarta				Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Ambon	[Taking time	5.00 hr]	☐ Highway	☐ Heavy	☐ Hotel	
By Air	to Bacan	[Taking time	2.00 hr.]	☑ Paved	☐ Medium	☑ Motel	
By Car	to Location	[Taking time	0.30 hr.]	☐ Unpaved road	☑ Light		
					☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

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

3.2 Building Conditions

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

Room Area (m²)	
Operation room	
E / G room	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	1	1
Wire	2	2
kVA	0.9	3

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

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

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

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

Remark Office Building owned by Kanpel and operated by Kanpel Staff

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure

Restoration flow: Send to Ambon to be repaired

Examples of major failure: Damaged by lightening

Sufficiency of spares:

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

Institutional and Human Statuses

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

5. PERSONNEL FORMATIONS

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

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	LABUHA		
CLASS	4th-B	NO.	203

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 Telecommunication in Maluku is very important, because: Maluku consists of Islands which separated by Ocean, and 90% of Maluku area is Ocean Transportation between Island by using ships, and Maritime Telecommunication used as ship navigation monitoring
Remarks	

INVENTORY

Site Name: Labuha

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**MF/HF System**							
1		SSB Transceiver	IC-M-700		ICOM				Good
2		**Power Supply Equipment**							
2-1		**Power Adaptor & UPS**							
1		Power Supply Unit							Good
2		Battery Charger							Good
3		Battery							Good
2-2		**Engine Generator**							
1		3kVA (5HP) Engine Generator	ET-300		YAMAHA				Good

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Labuha

LBA-203-(1/1)

Call Sign : Mobile Service :
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Fix Service				
1	6 926,0	J3E	150		
2	5 316,0	J3E	150		
3	9 925,0	J3E	150		
4	10 225,0	J3E	150		
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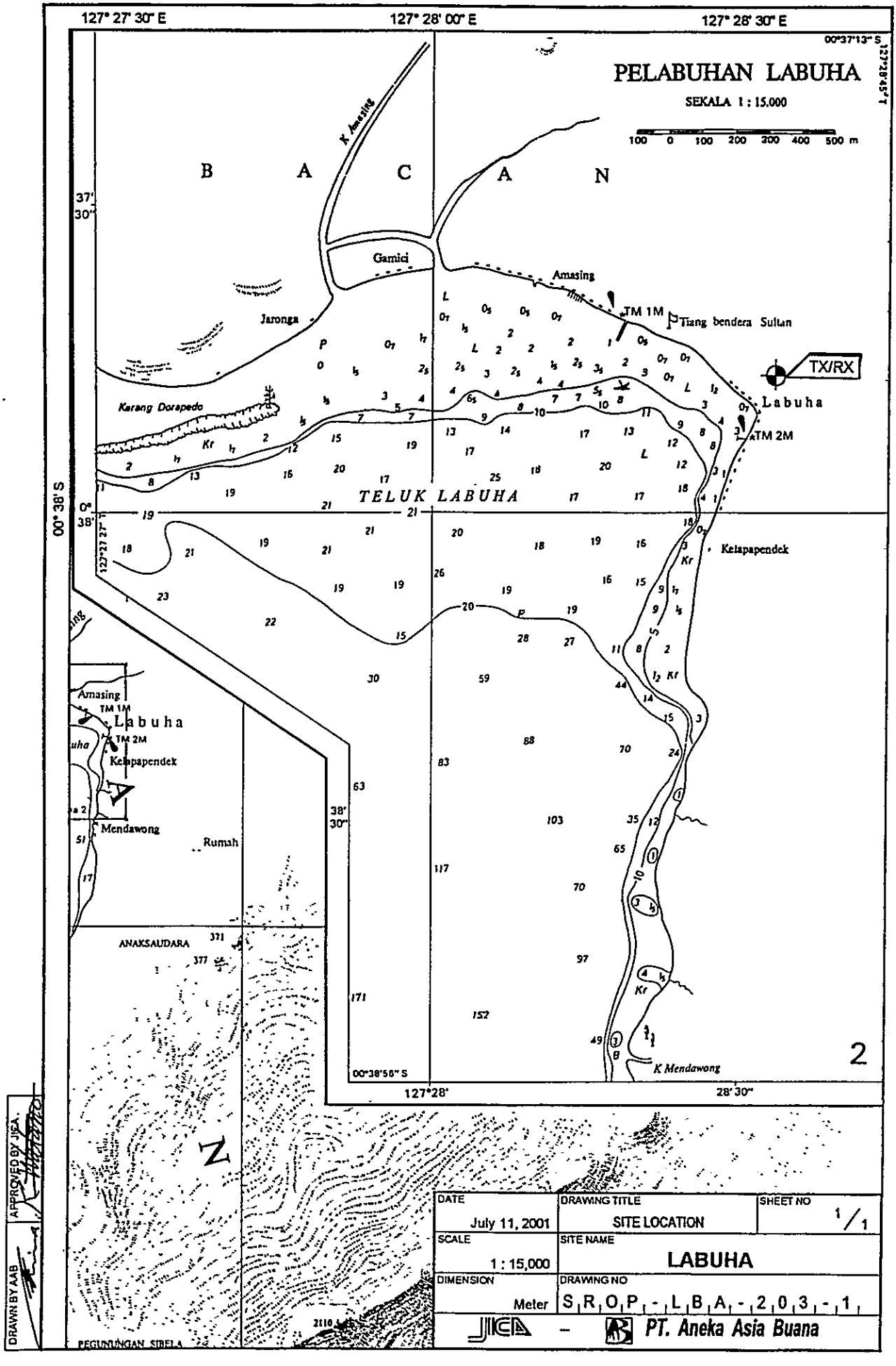
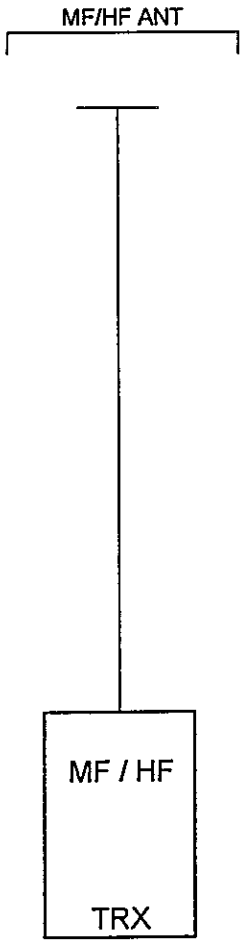

127° 27' 30" E
127° 28' 00" E
127° 28' 30" E
00°37'13" S
PELABUHAN LABUHA
SEKALA 1 : 15.000
100 0 100 200 300 400 500 m
B A C A N
K. Amasing
Gamici
Amasing
Jaronga
TM 1M
Tiang bendera Sultan
TX/RX
Karang Dorapedo
Labuha
TM 2M
TELUK LABUHA
00° 38' S
Kelapapendek
Amasing
TM 1M
Labuha
TM 2M
Kelapapendek
Mendawong
Rumah
ANAKSAUDARA
PEGUNUNGAN SIBELA
00°38'56" S
127°28'
28' 30"
K Mendawong
2
DATE
July 11, 2001
DRAWING TITLE
SITE LOCATION
SHEET NO
1/1
SCALE
1 : 15,000
SITE NAME
LABUHA
DIMENSION
Meter
DRAWING NO
SROP-LBA-203-1
JICA
PT. Aneka Asia Buana
APPROVED BY JICA
DRAWN BY AAB



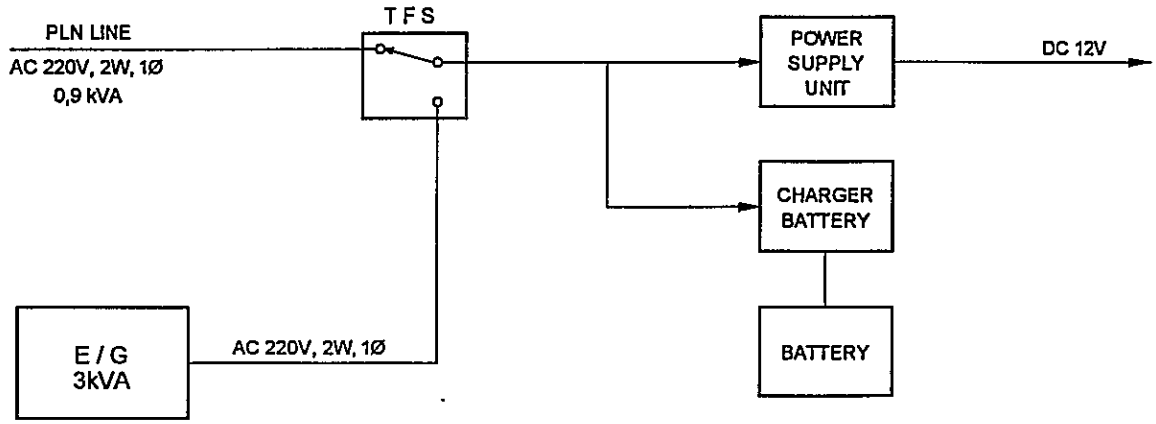
LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: Sept 27 , 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: LABUHA	
DIMENSION: Milimeter	DRAWING NO.: SROP-LBA-203-5	
JICA – PT. Aneka Asia Buana		



LEGEND

AC	: ALTERNATING CURRENT
kVA	: KILO VOLT AMPERE
TFS	: TRANSFER SWITCH
V	: VOLT
W	: WIRE
Ø	: PHASE

APPROVED BY JICA

DRAWN BY AAB

DATE: Sept 27, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: LABUHA	
DIMENSION: Milimeter	DRAWING NO.: SROP-LBA-203-6	
JICA – PT. Aneka Asia Buana		

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

4th-B Class Coast Station

Saparua

(Coast Station No. 204)

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	SAPARUA		
CLASS	4th-B	NO.	204

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX				128° 39′ 20″ E	03° 34′ 20″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Ambon	[Taking time 5.00 hr.]	☐ Highway	☐ Heavy	☐ Hotel	
By Ship	to Saparua	[Taking time: 7.00 hr.]	☐ Paved	☐ Medium	☑ Motel	
By Car	to Location	[Taking time: 0:30 hr.]	☑ Unpaved road	☑ Light		
				☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

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

3.2 Building Conditions

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

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	1	1
Wire	2	2
kVA	0.9	3

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

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

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

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

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Send to Disnav Ambon
Examples of major failure	Damaged by lightening
Sufficiency of spares	

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

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

5. PERSONNEL FORMATIONS

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

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	SAPARUA		
CLASS	4th-B	NO.	204

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 is very important in Maluku, because : Maluku consists of Islands which separated by Ocean, and 90% of Maluku area is Ocean Transportation between Islands by using ship, and Maritime Telecommunications used as ship navigation monitoring
Remarks	Office Building owned by Kanpel and operated by Kanpel Staff

INVENTORY

Site Name: Saparua

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**MF/HF System**							
1		SSB Transceiver	SBX-100RX		Spilsbury				Damaged
2		SSB Transceiver	IC-M-700		ICOM				Good
2		**Power Supply Equipment**							
2-1		**Power Adaptor & UPS**							
1		Power Supply Unit							Good
2		Battery Charger							Damaged
3		Battery			YUASA				Good
2-2		**Engine Generator**							
1		3kVA (5HP) Engine Generator	ET-300		YAMAHA				Damaged

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Saparua

SPR-204-(1/1)

Call Sign : Mobile Service :
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Fix Service				
1	6.926,0	J3E	150		
2	5 316,0	J3E	150		
3	9 925,0	J3E	150		
4	10 225,0	J3E	150		
5					
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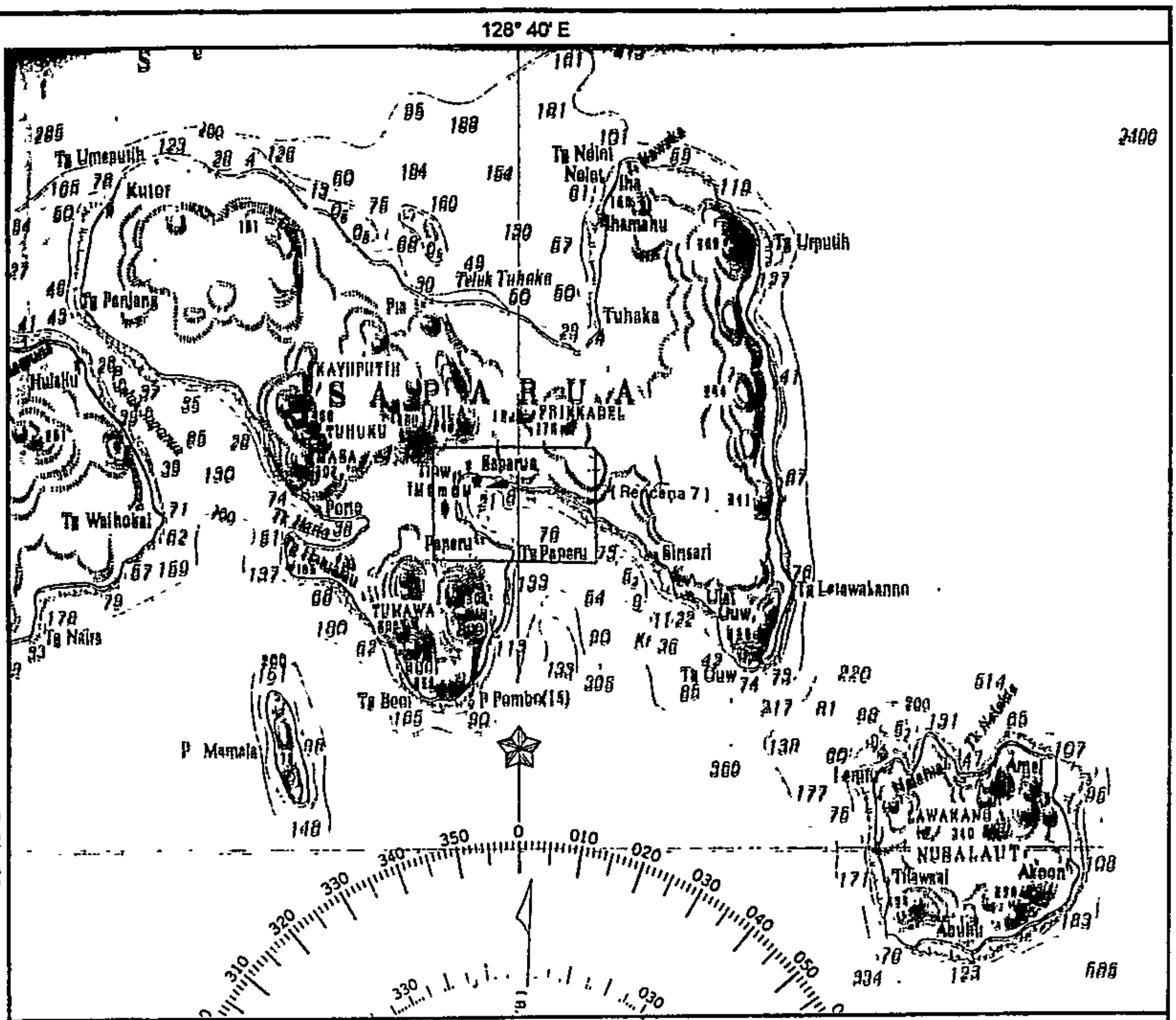
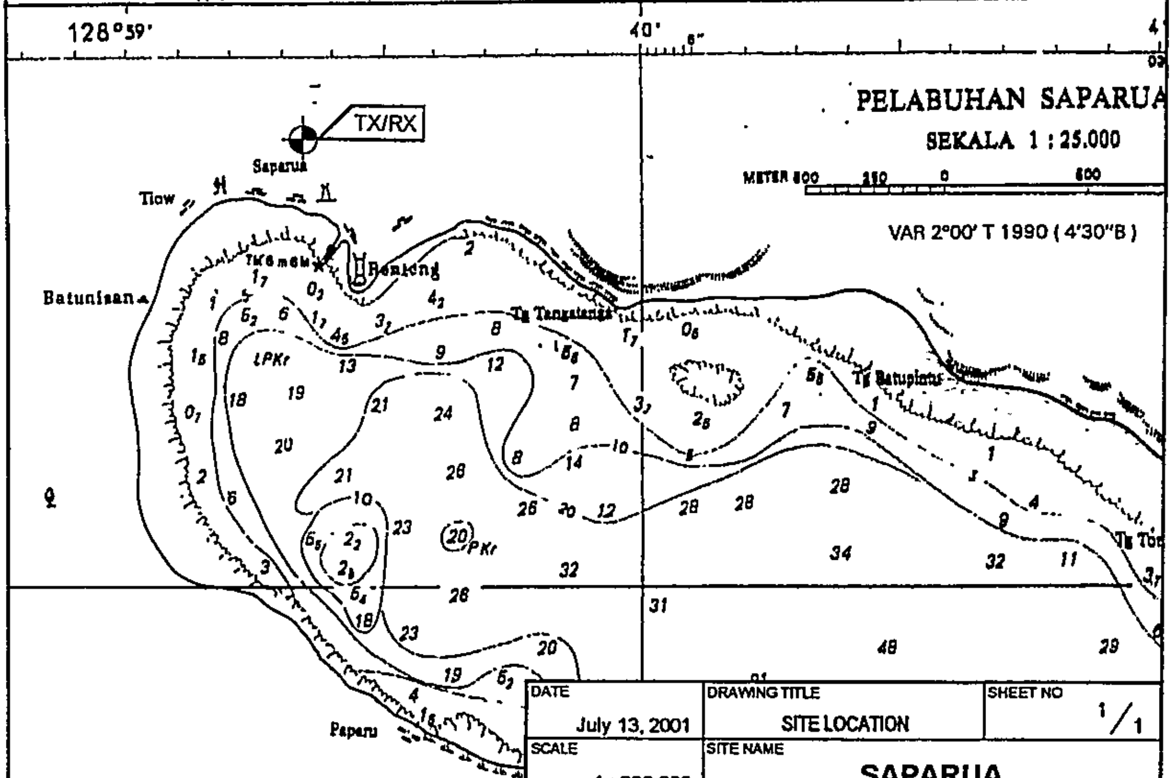
27					





DATE	DRAWING TITLE	SHEET NO
July 13, 2001	SITE LOCATION	1/1
SCALE	SITE NAME	
1 : 200,000	SAPARUA	
DIMENSION	DRAWING NO.	
Meter	S,R,O,P,-,S,P,R,-,2,0,4,-,1	
JICA	- PT. Aneka Asia Buana	

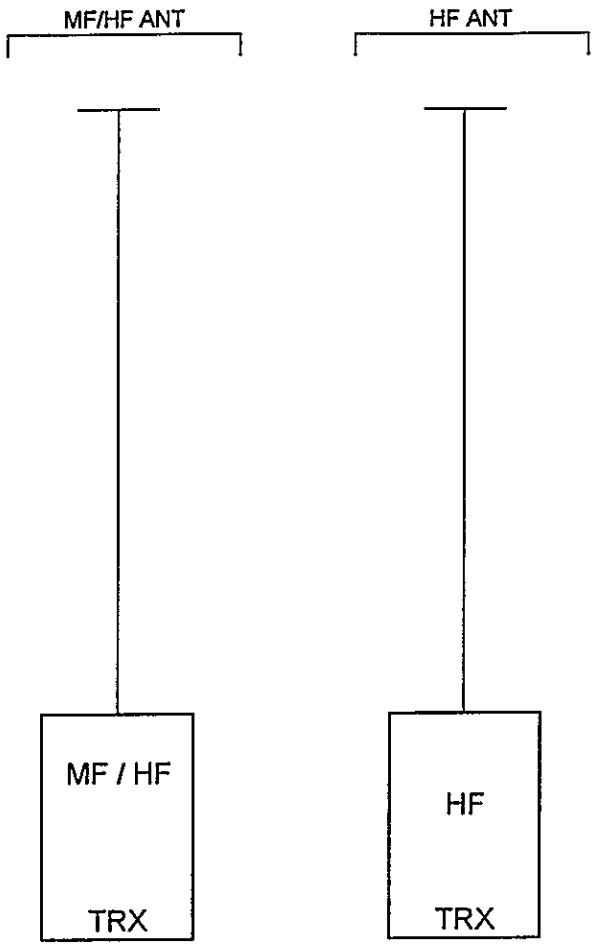
DRAWN BY AAB :

APPROVED BY JICA :

7

128°35'45" T

03°35'35" S



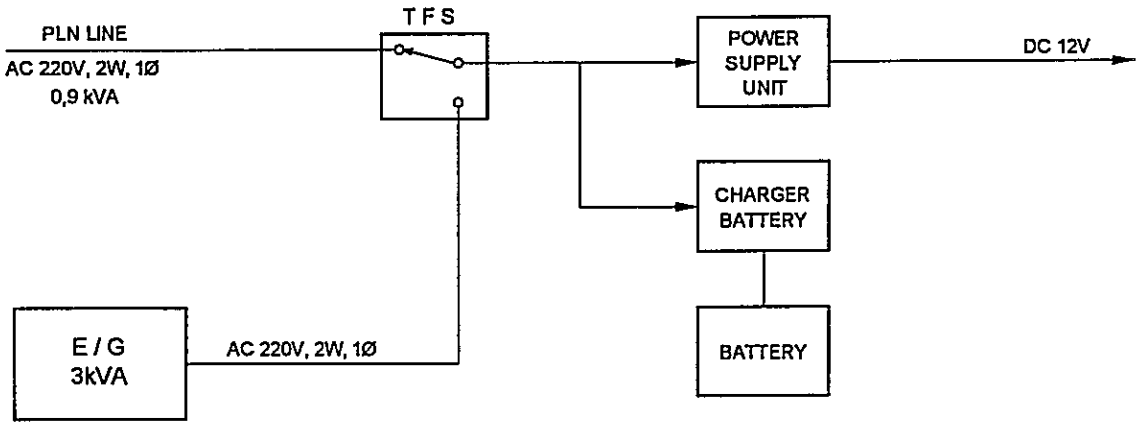
LEGEND

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

DATE: Sept 27 , 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: SAPARUA	
DIMENSION: Milimeter	DRAWING NO.: SROP-SPR-204-5	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA.

DRAWN BY AAB



LEGEND

AC	: ALTERNATING CURRENT
kVA	: KILO VOLT AMPERE
TFS	: TRANSFER SWITCH
V	: VOLT
W	: WIRE
Ø	: PHASE

APPROVED BY JICA

DRAWN BY AAB

DATE: Sept 27, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: **SAPARUA**	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,S,P,R,-,2,0,4,-,6,	
JICA –	PT. Aneka Asia Buana	

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

4th-B Class Coast Station

Leksula

(Coast Station No. 205)

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	LEKSULA		
CLASS	4th-B	NO.	205

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Kompleks Pelabuhan, Leksula			126° 31′ 00″ E	03° 46′ 20″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Ambon	[Taking tume: 5.00 hr]	☐ Highway	☐ Heavy	☐ Hotel	
By Air	to Namlea	[Taking time 2.00 hr]	☐ Paved	☐ Medium	☑ Motel	
By Car	to Location	[Taking time. 4.00 hr]	☑ Unpaved road	☑ Light		
				☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

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

3.2 Building Conditions

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

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	1	1
Wire	2	2
kVA	0.9	3

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

Existing Power Conditions			
Good	Bad		
☑	☐	Power Supply System	
☐	☑	Operations of E/G	
☐	☑	Operations of AVR	
Capacity of fuel for engine			
Day tank		Liter	
Main tank		k Liter	
E/G Stand-by System			
☑	Single System		
☐	Dual System		

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Send to Ambon to be repaired
Examples of major failure	Damaged by lightening
Sufficiency of spares	

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

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

5. PERSONNEL FORMATIONS

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

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	LEKSULA		
CLASS	4th-B	NO.	205

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 Maluku is very important, because: Maluku consists of Islands which separated by Ocean, and 90% of Maluku area is Ocean Transportation between Island by using ships, Maritime Telecommunications used as ship navigation monitoring
Remarks	

INVENTORY

Site Name: Leksula

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**MF/HF System**							
1		SSB Transceiver	IC-M-700		ICOM				Damaged
2		**Power Supply Equipment**							
2-1		**Power Adaptor & UPS**							
1		Power Supply Unit							Damaged
2		Battery Charger							Damaged
3		Battery			YUASA				Good
2-2		**Engine Generator**							
1		3kVA (5HP) Engine Generator	ET-300		YAMAHA				Damaged

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Leksula

LSL-205-(1/1)

Call Sign : Mobile Service :
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Fix Service				
1	6 926,0	J3E	150		
2	9 925,0	J3E	150		
3	5 316,0	J3E	150		
4					
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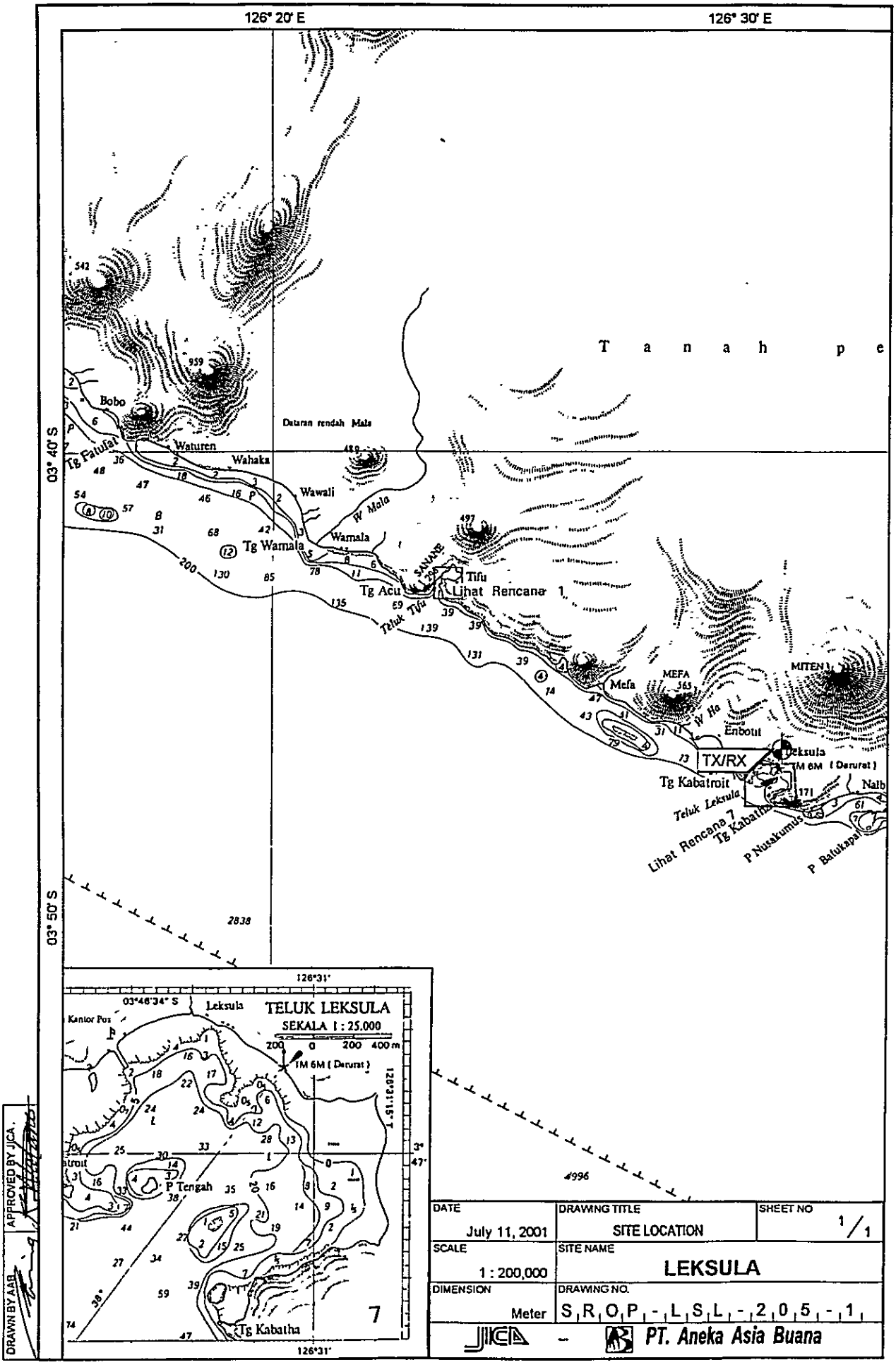
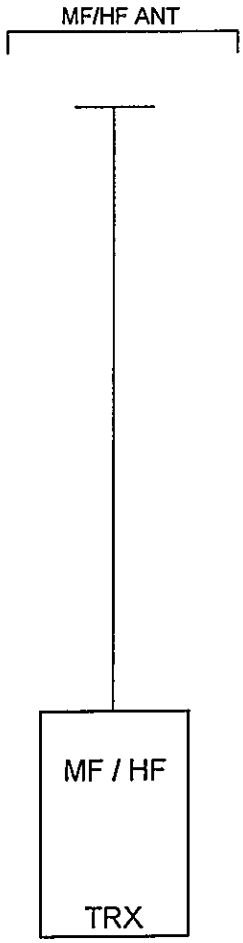


DATE: July 11, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 : 200,000	SITE NAME: LEKSULA	
DIMENSION: Meter	DRAWING NO.: SROP-LSL-205-1	

JICA – PT. Aneka Asia Buana

DRAWN BY AAB | APPROVED BY JICA



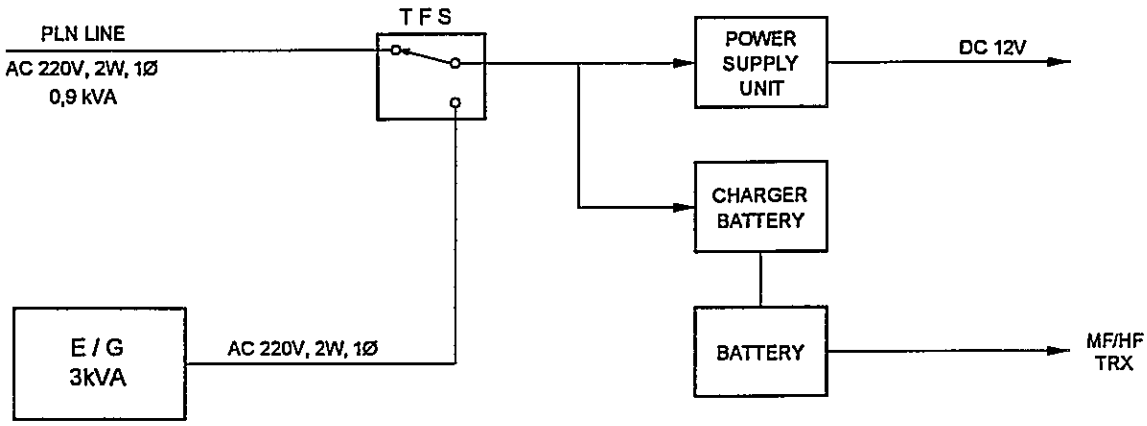
LEGEND

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

DATE: Sept 27 , 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: LEKSULA	
DIMENSION: Milimeter	DRAWING NO: SROP-LSL-205-5	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB

APPROVED BY JICA



LEGEND

AC	: ALTERNATING CURRENT
kVA	: KILO VOLT AMPERE
TFS	: TRANSFER SWITCH
V	: VOLT
W	: WIRE
Ø	: PHASE

APPROVED BY JICA

DRAWN BY AAB

DATE: Sept 27, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: LEKSULA	
DIMENSION: Milimeter	DRAWING NO.: SROP-LSL-205-6	
JICA –	PT. Aneka Asia Buana	

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

4th-B Class Coast Station

Amahai

(Coast Station No. 206)

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	AMAHAI		
CLASS	4th-B	NO.	206

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	CHR.M. Tiahahu	21135		128° 56′ 00″ E	03° 20′ 00″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Ambon	[Taking time: 5.00 hr]	☐ Highway	☐ Heavy	☐ Hotel	
By Air	to Amahai	[Taking time: 1.00 hr.]	☑ Paved	☐ Medium	☑ Motel	
By Car	to Location	[Taking time: 0.5 hr.]	☐ Unpaved road	☑ Light		
				☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

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

3.2 Building Conditions

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

3.3 Power Source

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

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

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

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

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

Remark Office Building owned by Kanpel and operated by Kanpel Staff

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Send to Ambon
Examples of major failure	Damaged by lightening, Voltage un-stable
Sufficiency of spares	

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

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

5. PERSONNEL FORMATIONS

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

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	AMAHAI		
CLASS	4th-B	NO	206

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 is very important in Maluku, because. Maluku consists of Islands which separated by Ocean, and 90% of Maluku area is Ocean Transportation between Island by using Ship, and Maritime Telecommunications used as ship navigation monitoring
Remarks	

INVENTORY

Site Name: Amahai

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**MF/HF System**							
1		SSB Transceiver	NS-11A		Furuno				Damaged
2		SSB Transceiver	IC-M-700		ICOM				Good
2		**Power Supply Equipment**							
2-1		**Power Adaptor & UPS**							
2		Battery Charger							Good
3		Battery			Yuasa				Good

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Amahai

AMH-206-(1/1)

Call Sign : Mobile Service :
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Fix Service				
1	6 926,0	J3E	150		
2	5.316,0	J3E	150		
3	9 925,0	J3E	150		
4	10 225,0	J3E	150		
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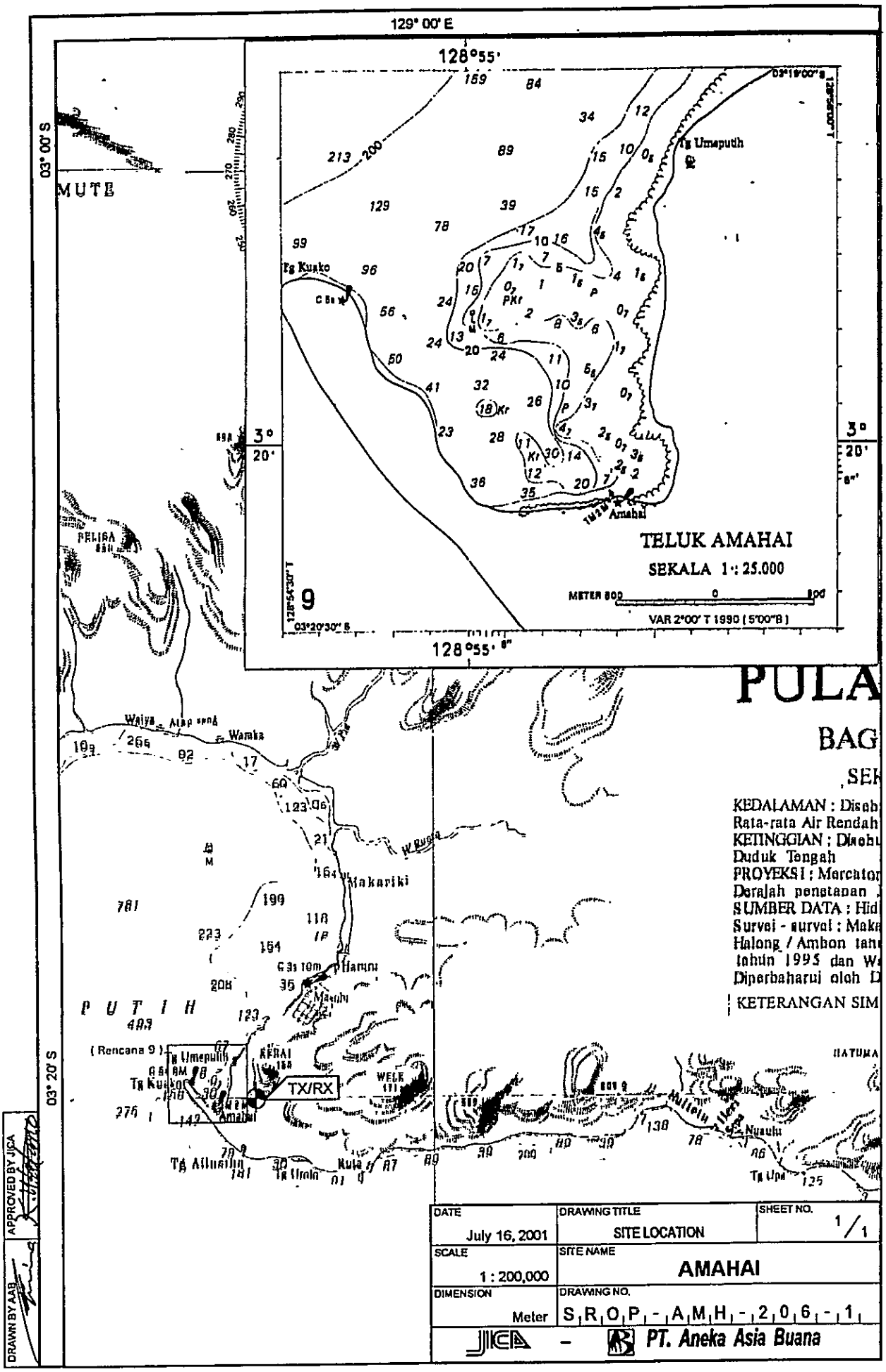
27					

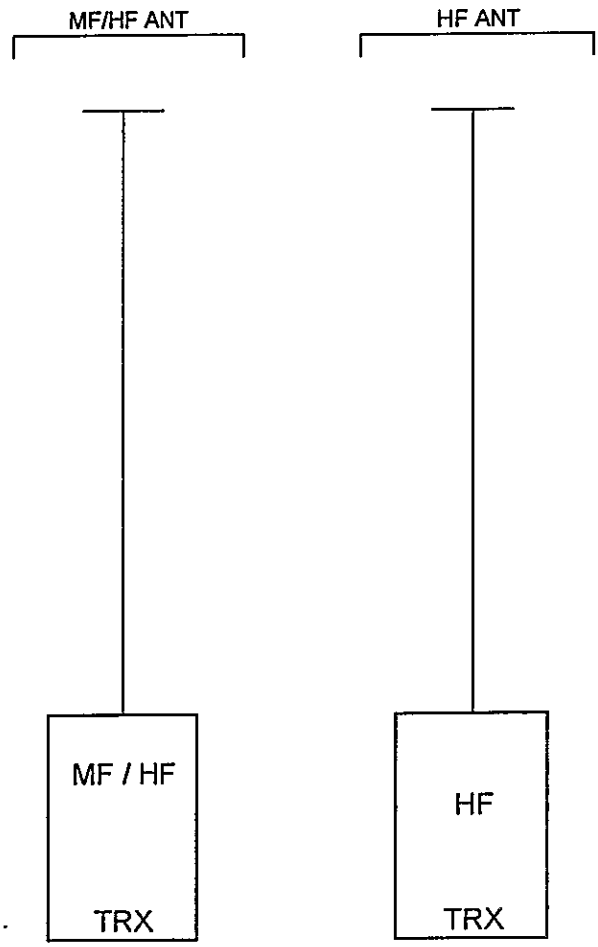
Opschedule-Leksula



DATE: July 16, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO.: 1/1
SCALE: 1 : 200,000	SITE NAME: AMAHAI	
DIMENSION: Meter	DRAWING NO.: S,R,O,P,-,A,M,H,-,2,0,6,-,1	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB

APPROVED BY JICA



LEGEND

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

DATE: Sept 27 , 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: AMAHAI	
DIMENSION: Milimeter	DRAWING NO: SROP-AMH-206-5	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA

DRAWN BY AAB

LEGEND

AC	: ALTERNATING CURRENT
kVA	: KILO VOLT AMPERE
TFS	: TRANSFER SWITCH
V	: VOLT
W	: WIRE
Ø	: PHASE

APPROVED BY JICA

DRAWN BY AAB

DATE: Sept 27, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: AMAHAI	
DIMENSION: Milimeter	DRAWING NO.: SROP-AMH-206-6	
JICA – 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

1ST CLASS DISTRICT NAVIGATION AREA (22)
SORONG

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

1st Class District Navigation Area (22)

Sorong

Table of Content

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

1st Class District Navigation Office (Area-22)
Sorong

Table of Content

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	SORONG		
CLASS	1st	NO.	22

1. LOCATION

Address	Tel.	Fax	Longitude	Latitude
Jl. Jend. Sudirman/Jl. Sawo	0951-323919	0951-325506	131° 15′ 50″ E	00° 53′ 30″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Bandara Jefman	[Taking time. 6.00 hr]	☑ Highway	☐ Heavy	☑ Hotel	3,000,000
By Speed Boat	to Sorong	[Taking time: 1.00 hr]	☐ Paved	☐ Medium	☐ Motel	
By Car	to Location	[Taking time: 0.15 hr.]	☐ Unpaved road	☑ Light		
				☐ 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	
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes	No
☑ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☐	☐ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐	☐ Towers (Masts)
☐ Basin	☐ Clay	☑ Dry soil/sandy	☐ Ground Subsidence	☐	☐ Grounding system
☐ Valley	☐ Sandy			☐	☐ Lightning system
Altitude	2 m		**Telephone Lines**	☑	☐ Feeder Cable Way
Land area	47,000 m²		☑ 2 Lines	☐	☑ City water

3.2 Building Conditions

Constructions	
Num. of story	Two
Structure	Concrete
Type of roof	Asbes Gel
Type of ceiling	Triplex
Type of wall	Brick
Wall finish	Mortar
Flooring	Ceramic

Room Area (m²)	
Operation room	400.00
E / G room	16.00
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	V
Phase	3	
Wire	4	
kVA	210	

Quality of PLN source		
Fluctuations	V ± %	
Availability of power per day	24 Hours	
Power interruption /month	1 Times	
Total interpt. hours /month	1 Hours	
Max interpt. hours at once	2 Hours	

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

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

E/G Stand-by System

☐ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

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

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

Environmental Conditions		
Good	Bad	
☑	☐	External noises
☑	☐	Air pollution
☐	☑	So many robbing

Institutional and Human Statuses			
1 Budget	☐ Sufficient	☐ Reasonable	☐ Insufficient
2 Spares	☐ Enough	☐ Reasonable	☐ Not enough
3 Measuring eqpt /tools	☐ Enough	☐ Reasonable	☐ Not enough
4 Number of Operator	☐ Enough	☐ Reasonable	☐ Not enough
5 Number of Technician	☐ Enough	☐ Reasonable	☐ Not enough

5. PERSONNEL FORMATIONS

Chief	
Operator (skilled)	()
Technician (skilled)	()
Administrator	
Total	

Training Record

Course	Class	Location	Period	Trainee
Spama	Structural	Jakarta	1998	1
Adum	Structural	Jakarta		3

SUMMARY OF DISNAV

SITE	SORONG		
CLASS	1st	NO.	22

6	Capability of Operator	☐ Skilled	☐ Not so bad	☐ Not capable					
7	Capability of Technician	☐ Skilled	☐ Not so bad	☐ Not capable					

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	Upgrading Quantity/quality for human resource Safety fence Budgetary in accordance with necessity
Remarks	

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

ADPEL/KPLP Office (Disnav Area - 22)
Sorong

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 ADPEL / KPLP

SITE	SORONG		
CLASS		NO.	XXII

1. LOCATION

Address	Tel.	Fax	Longitude	Latitude
Tanjung Dofior Pelabuhan			° ' "	° ' "

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Jefman [Taking time: 6 00 hr]	☐ Highway	☐ Heavy	☑ Hotel	
By Sp.boat to Sorong [Taking time: 1 00 hr]	☑ Paved	☐ Medium	☐ Motel	
By Car to Location [Taking time: 0 05 hr.]	☐ Unpaved road	☑ Light		
		☐ None		

3. CONDITIONS OF ADPEL/KPLP OFFICE

Refer to attached drawing

3.1 Site Conditions

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

3.2 Building Conditions

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

3.3 Power Source

	PLN Source	E/G
Voltage	V	V
Phase		
Wire		
kVA		

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

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

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

E/G Stand-by System

☐ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

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

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

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

5. PERSONNEL FORMATIONS

Chief	
Operator (skilled)	()
Technician (skilled)	()
Administrator	
T o t a l	
	•

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF ADPEL / KPLP	SITE	SORONG		
	CLASS		NO.	XXII

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

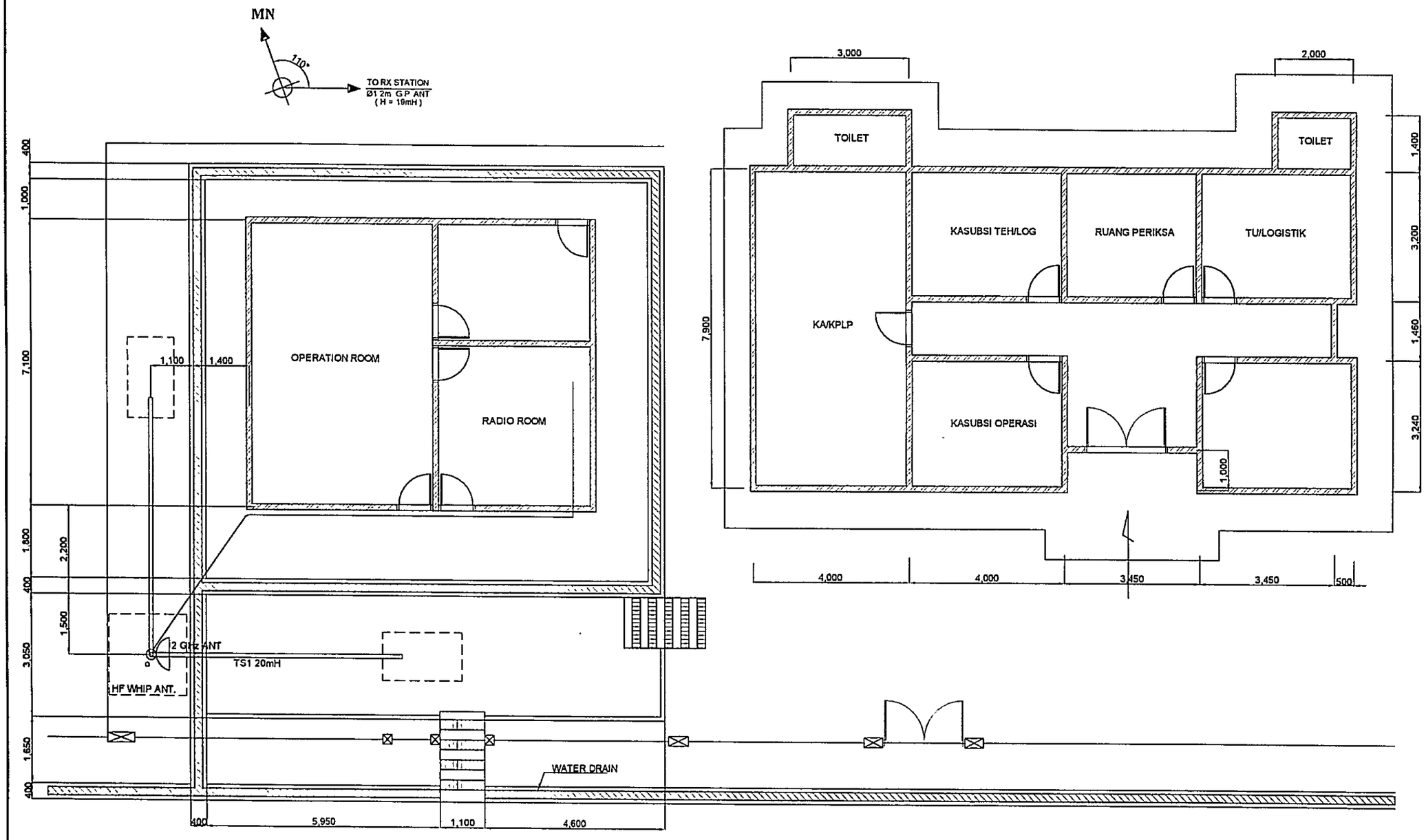
Site Name: Adpel Sorong

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Operator Console/Desk/Rack**							
1-1-1		**Console-III-1**							
		All Wave Receiving	NRD-93		JRC	1989	SAR Project		
		Spot Scanning Unit	NDH-93		JRC	1989	SAR Project		
		Telecontroller (TX)	NCH-300		JRC	1989	SAR Project		
		Telecontroller (RX)	NCG-95		JRC	1989	SAR Project		
		Marine VHF Telecontroller			JRC	1989	SAR Project		
		Signal Controller	NQP-21		JRC	1989	SAR Project		
		Speaker Panel	NVA-64		JRC	1989	SAR Project		
		Analog Clock	J-70-P-b		JRC	1989	SAR Project		
		Digital Clock	NKH-100		JRC	1989	SAR Project		
		Remote Control Unit (For MTRX)	JCC-300RR8		JRC	1989	SAR Project		
		Dialing Unit			JRC	1989	SAR Project		
		Headset (x2)			JRC	1989	SAR Project		
		Headsert (For MTRX)			JRC	1989	SAR Project		
		Ancillaries			JRC	1989	SAR Project		
		Console			JRC	1989	SAR Project		
		Telephone Device (x2)			JRC	1989	SAR Project		
		2128kHz A/A RX Monitor			JRC	1989	SAR Project		
		(TX) Telecontroller (For E)	NCH-300		JRC	1989	SAR Project		
		Telephony (x8)			JRC	1989	SAR Project		
		Telex			JRC	1989	SAR Project		
1-1-2		**Power Supply Equipment**							
		Isolation Transformer 1kVA			JRC	1989	SAR Project		
		Battery Charger 24V, 10A			JRC	1989	SAR Project		
		Battery 24V, 30AH			JRC	1989	SAR Project		
		CVCF 1kVA			JRC	1989	SAR Project		

INVENTORY

Site Name: Adpel Sorong

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1-2		Remote Control Equipment							
1-2-1		DRCS-I			JRC	1989	SAR Project		
		LOX			JRC	1989	SAR Project		
		MES			JRC	1989	SAR Project		
		TTY			JRC	1989	SAR Project		
		CE			JRC	1989	SAR Project		
		TDMA			JRC	1989	SAR Project		
		Telephony (x2)			JRC	1989	SAR Project		
		Fax			JRC	1989	SAR Project		

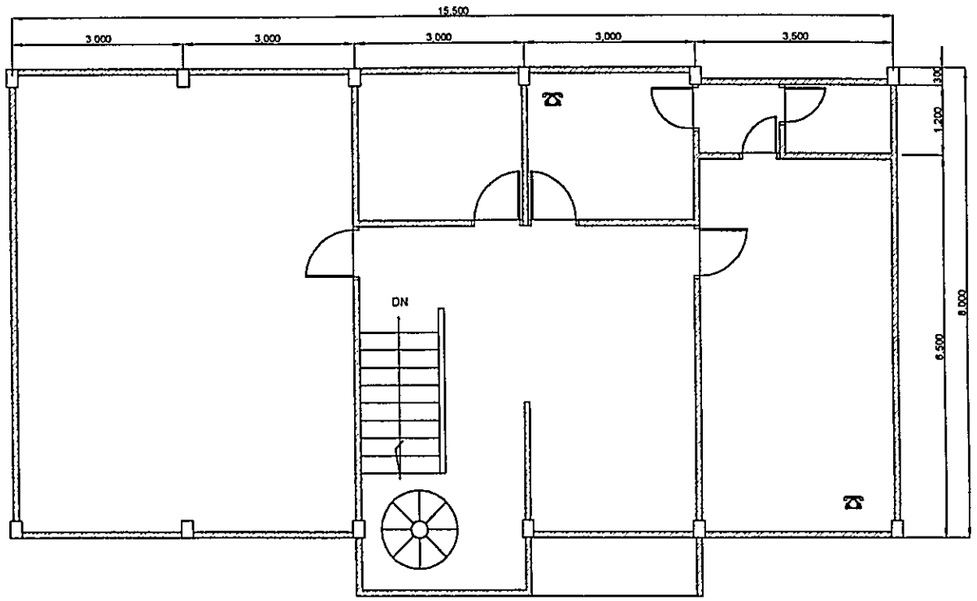


DRAWN BY AAB

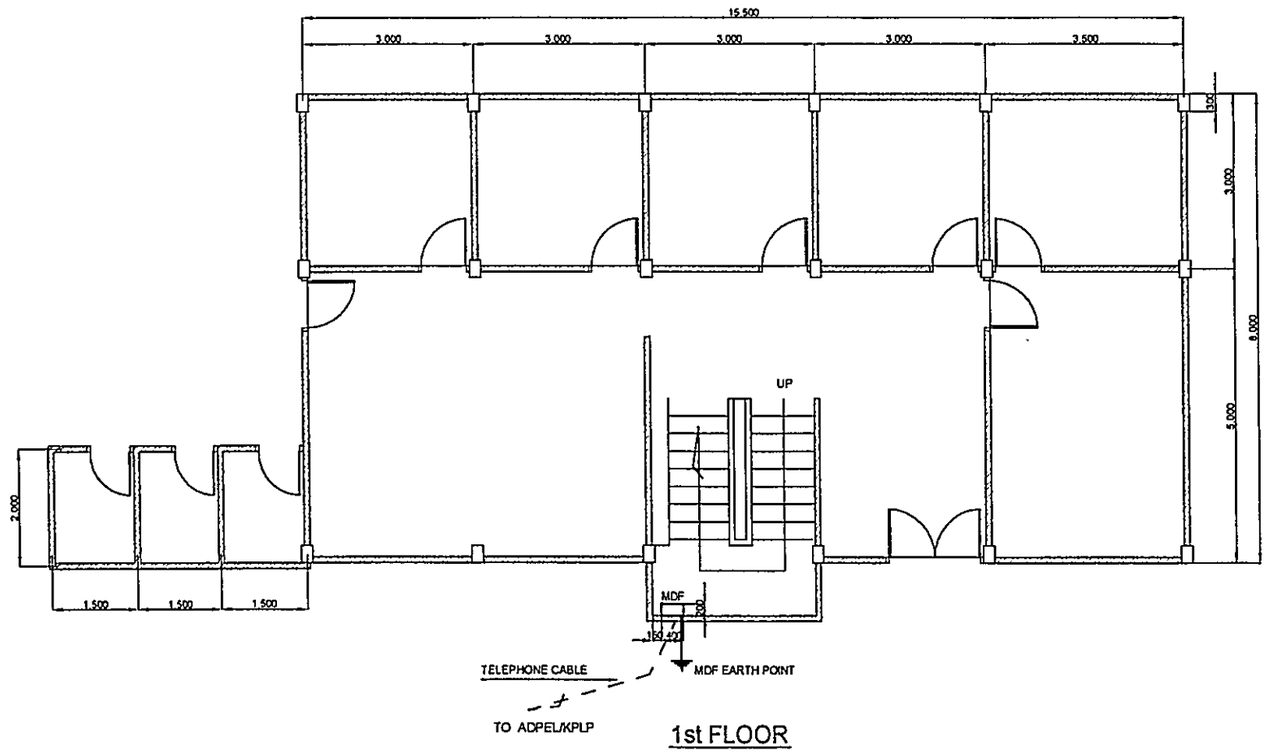
APPROVED BY JICA

DATE: July 18, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 100	SITE NAME: SORONG	
DIMENSION: Milimeter	DRAWING NO: KPLP-SRG-207-2	

JICA – PT. Aneka Asia Buana



2nd FLOOR



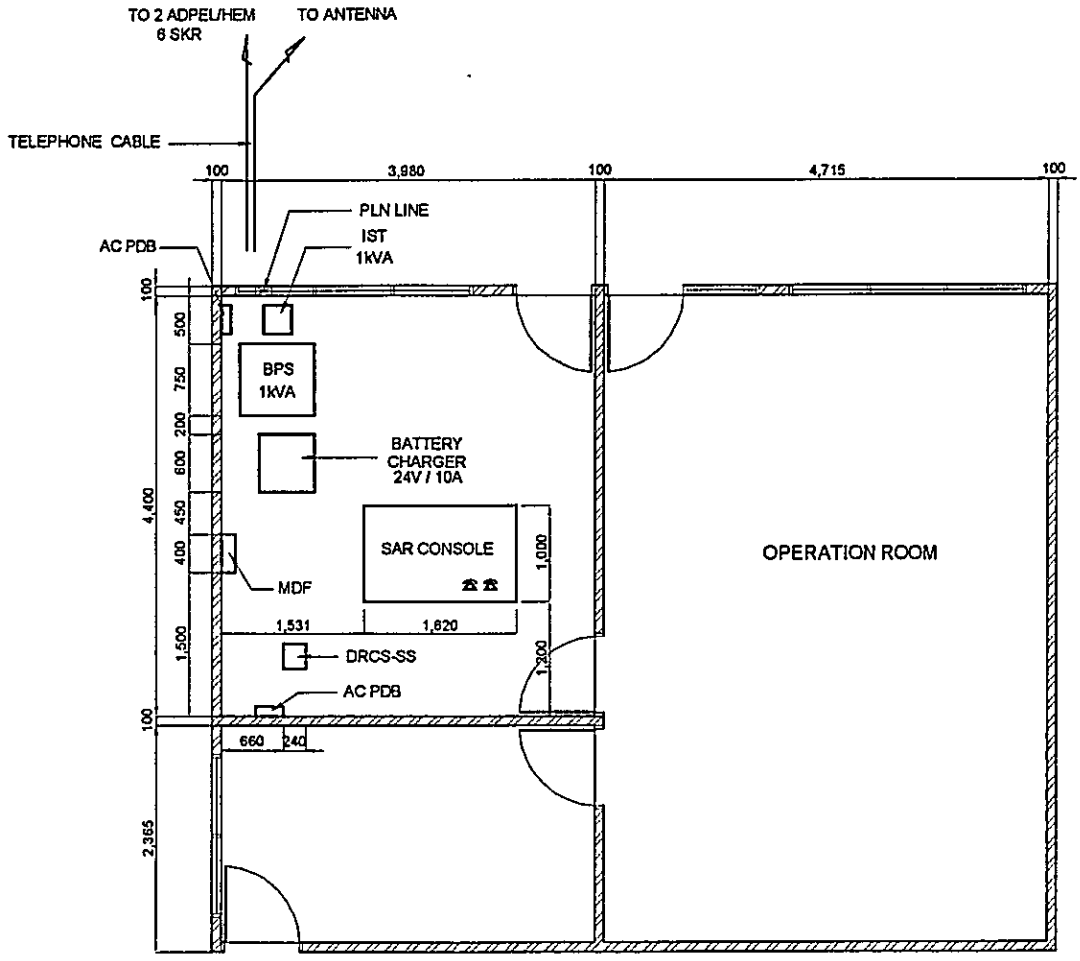
1st FLOOR

DRAWN BY A.A.B.

APPROVED BY JICA

DATE: July 18, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/2
SCALE: 1 : 100	SITE NAME: SORONG	
DIMENSION: Milimeter	DRAWING NO: K P L P - S R G - 2 0 7 - 3	

JICA – PT. Aneka Asia Buana



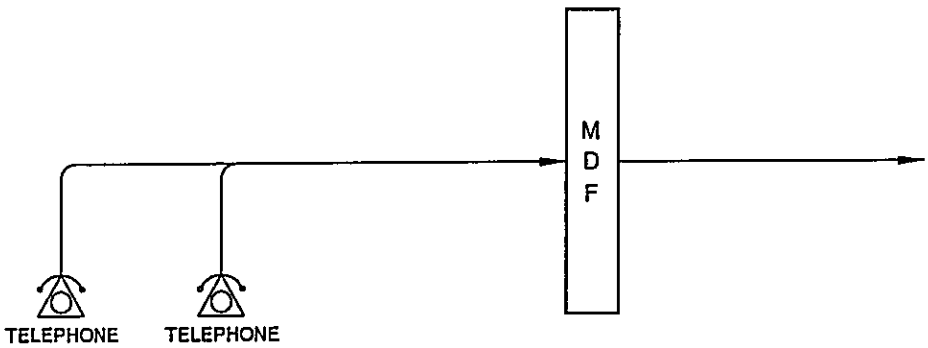
LEGEND

AC	ALTERNATING CURRENT
BPS	BATTERY POWER SUPPLY
IST	ISOLATION TRANSFORMER
kVA	KILO VOLT AMPERE
MDF	MAIN DISTRIBUTION FRAME
PDB	POWER DISTRIBUTION BOARD

DATE: July 18, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO.: 2/2
SCALE: 1 : 75	SITE NAME: SORONG	
DIMENSION: Milimeter	DRAWING NO: KPLP-SRG-207-3	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB

APPROVED BY JICA



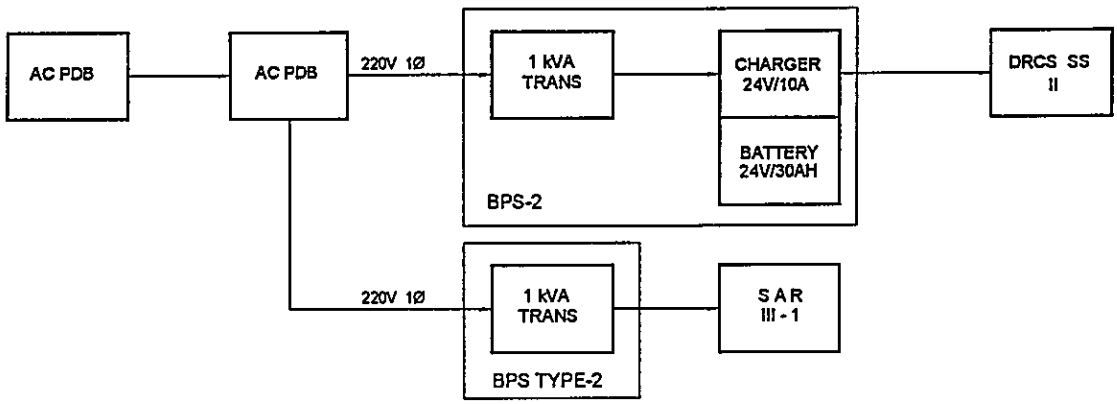
LEGEND

MDF : MAIN DISTRIBUTION BOARD

APPROVED BY JICA

DRAWN BY AAB

DATE: July 17, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: SORONG	
DIMENSION: Milimeter	DRAWING NO: KPLP-SRG-207-5	
JICA – PT. Aneka Asia Buana		



LEGEND

AC	: ALTERNATING CURRENT
PDB	: POWER DISTRIBUTION BOARD
V	: VOLT
Ø	: PHASE

DATE: July 17, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: SORONG	
DIMENSION: Milimeter	DRAWING NO.: KPLP-SRG-207-6	
JICA - PT. Aneka Asia Buana		

DRAWN BY AAB

APPROVED BY JICA

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

2nd Class Coast Station
Sorong
(Coast Station No. 207)

Table of Content

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

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	SORONG		
CLASS	2nd	NO.	207

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
RX	Jl. Sawo Klademak-II Sorong	0951-321827	0951-325507	131° 18′ 54″ E	00° 53′ 02″ S
TX	Jl. Basuki Rahmat Km 9.5 Sorong			131° 16′ 29″ E	00° 53′ 03″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Jefman	[Taking time. 6.00 hr]	☑ Highway	☐ Heavy	☐ Hotel	350,000
By Ship	to Sorong	[Taking time: 1:00 hr.]	☐ Paved	☐ Medium	☑ Motel	
By Car	to Location	[Taking time: 0.15 hr.]	☐ Unpaved road	☑ Light		
				☐ None		

3. CONDITIONS OF RECEIVING STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
☐ Flat	☑ Dry soil	☐ Limestone	☐ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑ ☐ Antenna
☑ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☑ ☐ Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☑ ☐ Grounding system
☐ Valley	☐ Sandy			☑ ☐ Lightning system
Altitude	45.00 M		Telephone Lines	☑ ☐ Feeder Cable Way
Land area	1,600 m²		☑ 1 Lines	☑ ☐ City water

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Asbestos
Type of ceiling	Asbestos
Type of wall	Brick
Wall finish	Teakwood
Flooring	Tile
Room Area (m²)	
Operation room	144.00
E / G room	30.00
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	3	1
Wire	4	2
kVA	5	5

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

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

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

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

4. CONDITIONS OF TRANSMITTING STATION

Refer to attached drawing

Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
☑ Flat	☐ Dry soil	☐ Limestone	☑ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑ ☐ Antenna
☐ Hill-top	☑ Swampy	☐ Rocky	☐ Rain Leakage	☑ ☐ Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☑ ☐ Grounding system
☐ Valley	☐ Sandy			☑ ☐ Lightning system
Altitude	m		Telephone Lines	☑ ☐ Feeder Cable Way
Land area	9,400 m²		☑ Lines	☑ ☐ City water

SUMMARY OF COAST STATION

SITE	SORONG		
CLASS	2nd	NO.	207

4. CONDITIONS OF TRANSMITTING STATION (Continued)

Refer to attached drawing

Building Conditions		Power Source			
Constructions			PLN Source	E/G	Existing Power Conditions
Num. of story	One	Voltage	220/380 V	220/380 V	Good Bad
Structure	Concrete	Phase	3	3	☑ ☐ Power Supply System
Type of roof	Ardex	Wire	4	4	☑ ☐ Operations of E/G
Type of ceiling	Ardex	kVA	60	40	☑ ☐ Operations of AVR
Type of wall	Brick	Quality of PLN source			Capacity of fuel for engine
Wall finish	Teakwood	Fluctuations	V ± %		Day tank 350 Liter
Flooring	Tile	Availability of power per day	24 Hours		Main tank 5 k Liter
Room Area (m²)		Power interruption /month	3 Times		E/G Stand-by System
Operation room	144.00	Total interpt. hours /month	0.5 Hours		☐ Single System
E / G room	34.00	Max. interpt. hours at once	4 Hours		☑ Dual System
Remark					

5. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Check and repair
Examples of major failure	Power Amplifier CPAJ & RF DSC Reg.
Sufficiency of spares	Spare Part & Spare Unit

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

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

6. PERSONNEL FORMATIONS

	RX	TX
Chief	1	
Operator (skilled)	9 (2)	2 (2)
Technician (skilled)	()	()
Administrator		
Total	10	2

Training Record				
Course	Class	Location	Period	Trainee

7. 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	48	48			1991	228	1,050		1996	482	1,873	
1997	36	36			1992	251	1,100		1997	410	1,640	
1998	20	20			1993	269	1,108		1998	380	1,510	
1999	11	11			1994	279	1,177		1999	310	1,151	
2000	7	7			1995	413	1,630		2000	327	1,144	

8. COMMENTS

Suggestion	Maritime Telecommunication in Coast Station Sorong decreased, because there are so many illegal stations without registered for using Maritime Frequency and difficult to detection, especially for Mobile Services Station Land Station that completed by license Radio Communication between Point to Point, usually miss-used decided Frequency; Used Maritime Frequency for private communication with ship.
Remarks	

INVENTORY

Site Name: Sorong

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1	2.06 03 02.03	1 kW MF Transmitter	JRS-108P	BS-61996	JRC	1987	F-TA-PH-1		Good
2	2 06 03 02.03	1 kW MF Transmitter	JRS-108P	BS-61997	JRC	1987	F-TA-PH-1		Good
3	2 06 03.03.03	1 kW MF/HF Transmitter	JRS-106NB	BS-61917	JRC	1987	F-TA-PH-1		Good
4	2 06.03 03 03	1 kW MF/HF Transmitter	JRS-106NB	BS-61918	JRC	1987	F-TA-PH-1		Good
5	2.06.03.03.03	1 kW MF/HF Transmitter	JRS-106NB	BS-61919	JRC	1987	F-TA-PH-1		Good
6	2.06 03 03.03	1 kW MF/HF Transmitter	JRS-106NB	BS-61920	JRC	1987	F-TA-PH-1		Good
7	2.06 03.03.03	1 kW MF/HF Transmitter	JRS-106NB	BS-71821	JRC	1987	F-TA-PH-1		Good
8	2 06 03 02.03	1 kW HF Transmitter	JRS-108P	BS-62098	JRC	1990	F-TA-PH-2		Good
9	2.06.03 02.03	1 kW HF Transmitter	JRS-108P	BS-62099	JRC	1990	F-TA-PH-2		Good
10	2.06 03 03.03	1 kW HF Transmitter (DSC/NBDP)	JRS-106NB	BS-61937	JRC	1996	F-TA-PH-3		75% Good
1-2		**Remote Control System**							
1-2-1		**Remote Control**							
1	2 06.05.06.03	Multiplex Radio	JUP-450	EM-11774	JRC	1987	F-TA-PH-1		Good
2	2 06.05.06.03	Multiplex Radio	JUP-450	EM-11775	JRC	1987	F-TA-PH-1		Good
3	2 06.05 06 03	Multiplex Radio	JUP-450	EM-11776	JRC	1987	F-TA-PH-1		Good
4	2 06 05 06 03	Multiplex Radio	JUP-450	EM-11777	JRC	1987	F-TA-PH-1		Good
5	2.06 05 06 03	Multiplex Terminal	JUF-5A	EP-12049	JRC	1987	F-TA-PH-1		Good
6	2.06 05 06.03	Multiplex Terminal	JUF-5A	EP-12050	JRC	1987	F-TA-PH-1		Good
7		Remote Control Rack	GED-1090A	BP-90940	JRC	1987	F-TA-PH-1		Good
8		Remote Control Rack	GED-1110B	BP-91937	JRC	1990	F-TA-PH-2		Good
9		Local Terminal Unit	JCC-300LR8	BP-90875	JRC	1987	F-TA-PH-1		Good
10		Local Terminal Unit	JCC-300LR8	BP-90876	JRC	1987	F-TA-PH-1		Good
11		Local Terminal Unit	JCC-300LR8	BP-90877	JRC	1987	F-TA-PH-1		Good
12		Local Terminal Unit	JCC-300LR8	BP-90878	JRC	1987	F-TA-PH-1		Good
13		Local Terminal Unit	JCC-300LR8	BP-90879	JRC	1987	F-TA-PH-1		Good
14		Local Terminal Unit	JCC-300LR8	BP-90880	JRC	1987	F-TA-PH-1		Good
15		Main Distribution Frame	NQE-40A2	EQ-14019	JRC	1987	F-TA-PH-1		Good
16		Main Distribution Frame	NQE-40A2	EQ-14020	JRC	1987	F-TA-PH-1		Good
17		Local Terminal Unit (For NBDP)	JCC-300LR8	BP-90988	JRC	1996	F-TA-PH-3		Good

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No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
18		Noise Filter (For GED-1113A)	NFH-300B	1	JRC	1996	F-TA-PH-3		Good
19		Local Terminal Unit	JCC-300LR8W	BP-90988	JRC	1996	F-TA-PH-3		Good
1-2-1	2.06.05.04 05	**Supervisory Console**	NCA-640	BP-90840	JRC	1987	F-TA-PH-1		Good
1		Receiver	NRD-93	BR-41439	JRC	1987	F-TA-PH-1		Good
2		Speaker Panel (1)	NVA-64		JRC	1987	F-TA-PH-1		Good
3		TX Status Display Panel (1)	NCG-61F/124		JRC	1987	F-TA-PH-1		Good
4		Antenna Status Display Panel (1)	NCG-62C		JRC	1987	F-TA-PH-1		Good
5		TX Signal Patching Panel	NQA-847	BP-90844	JRC	1987	F-TA-PH-1		Good
6		Power Supply (1)	CBD-665		JRC	1987	F-TA-PH-1		Good
7		Clock (1)	HCED00023		JRC	1987	F-TA-PH-1		Good
1-3		**Operator Console/Desk/Rack**							
1-3-1	2 06.04.02.03	**MF TG Console**							
1		Receiver	NRD-93	BR-41444	JRC	1987	F-TA-PH-1		Good
2		Receiver	NRD-93	BR-41445	JRC	1987	F-TA-PH-1		Good
3		Speaker Panel (1)	NVA-64		JRC	1987	F-TA-PH-1		Good
4		Antenna Devider	CB-721S-S	0448	JRC	1987	F-TA-PH-1		Good
5		Signal Controller	NQP-22	BP-90974	JRC	1987	F-TA-PH-1		Good
6		Telecontroller	NCH-300P	BP-90918	JRC	1987	F-TA-PH-1		Good
7		500 kHz AA	JXA-15A	BA-21121	JRC	1987	F-TA-PH-1		Good
8		Power Supply	NBA-3579	BA-21121	JRC	1987	F-TA-PH-1		Good
9		Morse Transmitting	NBK-2	BP-90950	JRC	1987	F-TA-PH-1		Good
10		Buzzer (1)	BZ-18		JRC	1987	F-TA-PH-1		Good
11		Jack Panel (1)	NQC-497A		JRC	1987	F-TA-PH-1		Good
12		Clock	HCED00018		JRC	1987	F-TA-PH-1		Good
1-3-2	2 06.04.03.03	**HF TG Console**							
1		Receiver	NRD-93	BR-41440	JRC	1987	F-TA-PH-1		Good
2		Receiver	NRD-93	BR-41441	JRC	1987	F-TA-PH-1		Good
3		Scanning Unit	NDH-93	BR-41440	JRC	1987	F-TA-PH-1		Good
4		Speaker Panel (1)	NVA-64		JRC	1987	F-TA-PH-1		Good
5		Antenna Devider	CB-721S-S	0451	JRC	1987	F-TA-PH-1		Good
6		Signal Controller	NQP-22	BP-90973	JRC	1987	F-TA-PH-1		Good
7		Telecontroller	NCH-300P	BP-90915	JRC	1987	F-TA-PH-1		Good
8		Jack Panel (1)	NQC-497A		JRC	1987	F-TA-PH-1		Good
9		Power Supply Unit (1)	NBK-31D		JRC	1987	F-TA-PH-1		Good

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No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
10		Clock (1)	HCED00023		JRC	1987	F-TA-PH-1		Good
1-3-3	2 06 04 04.03	**MF/HF TP Console**							
1		Receiver	NRD-93	BR-41442	JRC	1987	F-TA-PH-1		Good
2		Receiver	NRD-93	BR-41443	JRC	1987	F-TA-PH-1		Good
3		Scanning Unit	NDH-93	BR-41442	JRC	1987	F-TA-PH-1		Good
4		Speaker Panel (1)	NVA-64		JRC	1987	F-TA-PH-1		Good
5		Antenna Devider	CB-721S-S	0449	JRC	1987	F-TA-PH-1		Good
6		Signal Controller	NQP-22	BP-90961	JRC	1987	F-TA-PH-1		Good
7		Telecontroller	NCH-300P	BP-90916	JRC	1987	F-TA-PH-1		Good
8		Telecontroller	NCH-300P	BP-90917	JRC	1987	F-TA-PH-1		Good
9		Jack Panel (1)	NQC-497A		JRC	1987	F-TA-PH-1		Good
10		Telephone Repeater	NQQ-31A	BP-90767	JRC	1987	F-TA-PH-1		Good
11		2182 kHz AA	JXA-8A	BA-21045	JRC	1987	F-TA-PH-1		Good
12		Power Supply Unit (1)	NBK-31D		JRC	1987	F-TA-PH-1		Good
13		Clock (1)	HCED00020		JRC	1987	F-TA-PH-1		Good
1-3-4	2.06 04 03.03	**FIX COMM. Console**							
1		Receiver	NRD-93	BR-41476	JRC	1987	F-TA-PH-1		Good
2		Receiver	NRD-93	BR-41477	JRC	1987	F-TA-PH-1		Good
3		Speaker Panel (1)	NVA-64		JRC	1987	F-TA-PH-1		Good
4		Antenna Devider	CB-721S-S	0452	JRC	1987	F-TA-PH-1		Good
5		Signal Controller	NQP-21	BP-90962	JRC	1987	F-TA-PH-1		Good
6		Telecontroller	NCH-300P	BP-90919	JRC	1987	F-TA-PH-1		Good
7		Telecontroller	NCH-300P	BP-90920	JRC	1987	F-TA-PH-1		Good
8		Lincompex	NZA-15	BB-10192	JRC	1987	F-TA-PH-1		Good
9		ARQ Equipment	NCL-550A	GA-11019	JRC	1987	F-TA-PH-1		Good
10		Telephone Repeater	NQQ-31A	BP-90768	JRC	1987	F-TA-PH-1		Good
11		Jack Panel (1)	NQC-497A		JRC	1987	F-TA-PH-1		Good
12		Head Set (1)	NTR-3302		JRC	1987	F-TA-PH-1		Good
13		Power Supply Unit (1)	NBK-31D		JRC	1987	F-TA-PH-1		Good
14		Clock (1)	HCED00023		JRC	1987	F-TA-PH-1		Good
1-3-5		**Search & Monitor Console**							
1		Connection Rack	GED-1086A	BP-90946	JRC	1987	F-TA-PH-1		Good
2		Teleprinter	T-1000S	BC/V102544	Siemens	1987	F-TA-PH-1		Good
3		Common Repeater	NQQ-18G	BP-90777	JRC	1987	F-TA-PH-1		Good

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Site Name: Sorong

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
4		E/G Control Panel (1)	NCH-100A		JRC	1987	F-TA-PH-1		Good
5		Junction Box (1)	NQD-3013C		JRC	1987	F-TA-PH-1		Good
6		500kHz AA Receiver	JXA-15A	BA-21121	JRC	1987	F-TA-PH-1		Good
7		2182kHz AA Receiver	JXA-8A	BA-21045	JRC	1987	F-TA-PH-1		Good
8		500kHz AA Buzzer	BZ-18	BA-21121	JRC	1987	F-TA-PH-1		Good
9		Power Unit	NBA-3579	BP-21121	JRC	1987	F-TA-PH-1		Good
1-3-6		**DSC/NBDP Console (3U)**	**NCA-641B**	**BP-90850**	**JRC**	**1996**	F-TA-PH-3		Good
1		Receiver	NRD-93	BR-41472	JRC	1996	F-TA-PH-3		Good
2		Receiver	NRD-93	BR-41473	JRC	1996	F-TA-PH-3		Good
3		Scanning Unit	NDH-93	BR-41472	JRC	1996	F-TA-PH-3		Good
4		Scanning Unit	NDH-93	BR-41473	JRC	1996	F-TA-PH-3		Good
5		Speaker Panel	NVA-64	1	JRC	1996	F-TA-PH-3		Good
6		Sign. Controller without VODAS	NQP-22	BR-90947	JRC	1996	F-TA-PH-3		Good
7		Sign. Controller without VODAS	NQP-22	BR-90986	JRC	1996	F-TA-PH-3		Good
8		Telecontroller	NCH-300P	BR-90936	JRC	1996	F-TA-PH-3		Good
9		2W/4W Converter	NHH-556A	1	JRC	1996	F-TA-PH-3		Good
10		ARQ Equipment	NCL-550A	GA-11028	JRC	1996	F-TA-PH-3		Good
11		Telex Operation Unit	NQE-556A	GA-11104	JRC	1996	F-TA-PH-3		Good
12		DSC Terminal	NCT-60C	GA-11106	JRC	1996	F-TA-PH-3		Good
13		Connection Box	CQD-503A	2	JRC	1996	F-TA-PH-3		Good
14		Power Supply Unit	NBK-31D	1	JRC	1996	F-TA-PH-3		Good
15		Clock (+9H)	6HCED00075	1	JRC	1996	F-TA-PH-3		Good
16		Cabinet for Analog Clock		1	JRC	1996	F-TA-PH-3		Good
17		RF Jack Panel	NQE-584C	1	JRC	1996	F-TA-PH-3		Good
18		Junction Box	NQD-3193A	1	JRC	1996	F-TA-PH-3		Good
19		Teleprinter	T-1000S	BC/V102556	JRC	1996	F-TA-PH-3		Good
20		Teleprinter	T-1000S	BC/V102557	JRC	1996	F-TA-PH-3		Good
21		AF & Key Switch	NCJ-400A	1	JRC	1996	F-TA-PH-3		Good
1-3-7		**DSC Console (RX Station)**							
1		DSC Console (Distress/Gen.Call)	NCA-783C	BP-98275	JRC	1996	F-TA-PH-3		Good
2		Junction Box	NQD-3655C	1	JRC	1996	F-TA-PH-3		Good
3		Power Supply	NBK-31	1	JRC	1996	F-TA-PH-3		Good
4		PC 150 DX4-100MHz	PC-100	AI9000A4LHD	JRC	1996	F-TA-PH-3		Good
5		CRT Display	6542-105	66-76381	JRC	1996	F-TA-PH-3		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
6		System Floppy Disk (DSC)	7YLED10101	1	JRC	1996	F-TA-PH-3		Good
7		Master Clock	NKH-100	BP-99593	JRC	1996	F-TA-PH-3		Good
8		Printer Rack	P-1020G	1	JRC	1996	F-TA-PH-3		Good
9		Printer	LX-300	60307029	JRC	1996	F-TA-PH-3		Good
10		Paper		2	JRC	1996	F-TA-PH-3		Good
11		ALM Buzzer	CCD-242	1	JRC	1996	F-TA-PH-3		Good
12		DSC W/K RX Rack (1U type)	GED-1248	BP-98294	JRC	1996	F-TA-PH-3		Good
13		RF Jack Panel	NQE-584R	1	JRC	1996	F-TA-PH-3		Good
14		Junction Box	NQD-361D	1	JRC	1996	F-TA-PH-3		Good
15		DSC W/K Receiver	NRD-740	BR-69473	JRC	1996	F-TA-PH-3		Good
16		DSC W/K Receiver	NRD-740	BR-69474	JRC	1996	F-TA-PH-3		Good
17		DSC W/K Receiver	NRD-740	BR-69475	JRC	1996	F-TA-PH-3		Good
18		DSC W/K Receiver	NRD-740	BR-69476	JRC	1996	F-TA-PH-3		Good
19		DSC W/K Receiver	NRD-740	BR-69477	JRC	1996	F-TA-PH-3		Good
20		RX Controller	NCJ-536A	BP-98384	JRC	1996	F-TA-PH-3		Good
21		System Rack with Mother Board & PS	NCT-32	BP-98550	JRC	1996	F-TA-PH-3		Good
22		DSC DEM	CND-129A	BP-98483	JRC	1996	F-TA-PH-3		Good
23		DSC DEM	CND-129A	BP-98484	JRC	1996	F-TA-PH-3		Good
24		DSC MOD	CNM-159A	BP-98511	JRC	1996	F-TA-PH-3		Good
25		VHF DSC Modem (CH.70)	CNM-158A	BP-98535	JRC	1996	F-TA-PH-3		Good
26		CPU IF	CDC-721A	BP-98440	JRC	1996	F-TA-PH-3		Good
27		Power Supply	NBA-3979C	BP-98563	JRC	1996	F-TA-PH-3		Good
1-4		**VHF System**							
1		VHF Console	GFD-501YB(E)	CM-63487	JRC	1987	F-TA-PH-1		Good
2		50W VHFCH-16	GFD-260YK	CM-63451	JRC	1987	F-TA-PH-1		Good
3		50W VHF CH-26	GFD-260YL	CM-63458	JRC	1987	F-TA-PH-1		Good
4		25W VHF Multi Channel	GFD-227YA	CM-63467	JRC	1987	F-TA-PH-1		Good
5		Band Pass Filter	BP2-1500A	7-2521	JRC	1987	F-TA-PH-1		Good
6		Antenna Duplexer	DF33-1500A	7-2528	JRC	1987	F-TA-PH-1		Good
7		Antenna Duplexer	NFJ-24YN	7-2163	JRC	1987	F-TA-PH-1		Good
8		400 MHZ Coaxial Arrester	NYZ-400	87083					Good
9		VHF TX/RX (CH.70) with Cabinet	JRV-500AP	BH-20342	JRC	1996	F-TA-PH-3		Good
10		Duplexer	AW-158YB	950718	JRC	1996	F-TA-PH-3		Good
11		Coaxial Arrester	NYZ-150	95066	JRC	1996	F-TA-PH-3		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
2		Tower & Antenna System							
2-1		Tower & Mast							
		TX Station							
1		30mH Self Supporting	Triangle	T3					Good
2		30mH Self Supporting	Square	T2 & T4					Good
3		40mH Self Supporting	Square	T1					Good
4		5mH Panzer Mast		R24					Good
		RX Station							
5		20mH Self Supporting	Triangle	T1 & T2					Good
6		5mH Panzer Mast (8)							Good
2-2		Antenna System							
		TX Station							
1		8-Element Yagi Antenna	Y8-4503SA	7140	JRC	1987	F-TA-PH-1		Good
2		8-Element Yagi Antenna	Y8-4503SA	7137	JRC	1987	F-TA-PH-1		Good
3		Brown Cadioide Antenna	BRC-1501	7020	JRC	1987	F-TA-PH-1		Good
4		Brown Cadioide Antenna	BRC-1501	7021	JRC	1987	F-TA-PH-1		Good
5		Dipole Antenna	AE-183E	33	JRC	1987	F-TA-PH-1		Good
6		5W T Type Antenna (1)							Good
7		Fan Antenna (1)							Good
8		Inverted "L" Antenna (1)							Good
9		Multi Doublet Antenna (2)							Good
10		V.Omnidirectional Antenna (2)	AAED00060	4094					Good
11		Inverted "L" Antenna	CL-045M	1	JRC	1996	F-TA-PH-3		Good
12		Brown Cadioide Antenna	BRC-1511	1	JRC	1996	F-TA-PH-3		Good
		RX Station							
13		Single Doublet Antenna (2)							Good
14		Double Doublet Antenna (1)							Good
15		Inverted "L" Antenna (3)							Good
2-3		Antenna Switch							
1		Antenna Switching Matrix	ASED-00036	97955,2		1987	F-TA-PH-1		Good
2		Antenna Exchanger	NKZ-223	BP-91391		1987	F-TA-PH-1		Good
3		Antenna Exchanger	NKZ-223	BP-91994		1989	F-TA-PH-1		Good
4		Antenna Changer Rack	GJD-131E	BP-24876		1987	F-TA-PH-1		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
5		Antenna Changer	NQA-80B	BC-15225		1987	F-TA-PH-1		Good
6		Antenna Changer	NQA-80B	BC-15226		1987	F-TA-PH-1		Good
7		Antenna Changer	NQA-80B	BC-15227		1987	F-TA-PH-1		Good
8		Power Supply Unit	NBA-80	BP-24872		1987	F-TA-PH-1		Good
9		Antenna Changer (For RX)	NQA-80B	BC-19343	JRC	1996	F-TA-PH-3		Good
10		Antenna Changer (For RX)	NQA-80B	BC-19344	JRC	1996	F-TA-PH-3		Good
		Antenna Selector							
11		Antenna Multi Coupler	NAF-80FA	BC-15211		1987	F-TA-PH-1		Good
12		Antenna Multi Coupler	NAF-80FA	BC-15212		1987	F-TA-PH-1		Good
13		Antenna Multi Coupler	NAF-80FA	BC-15213		1987	F-TA-PH-1		Good
14		Antenna Multi Coupler	NAF-80FA	BC-13513		1985	F-TA-PH-1		Good
15		BC Band Rejection Filter	CFL-172	BC-15772		1987	F-TA-PH-1		Good
16		BC Band Rejection Filter	CFL-172	BC-15773		1987	F-TA-PH-1		Good
17		BC Band Rejection Filter	CFL-172	BC-15774		1987	F-TA-PH-1		Good
18		BC Band Rejection Filter	CFL-172	BC-13553		1985	F-TA-PH-1		Good
2-4		**Antenna Matching Unit**							
1		Antenna Matching Unit	NFG-3CA	BP-91293		1987	F-TA-PH-1		Good
2		Matching Unit Control	NCM-134F	BP-91386		1987	F-TA-PH-1		Good
3		Matching Unit	AW-314	No.27		1987	F-TA-PH-1		Good
4		Matching Unit	AW-314	No.28		1987	F-TA-PH-1		Good
5		TX AMU for I/L (For DSC)	NFG-140A	BP-98605	JRC	1996	F-TA-PH-3		Good
3		**Power Supply Equipment**							
3-1		**Power Distribution Board**							
1		PDB (TX)	NBJ-223A	W100836-2	JRC	1987	F-TA-PH-1		Good
2		PDB (RX)	NBJ-223B	W100836-6	JRC	1987	F-TA-PH-1		Good
3		Type RC (for RX) 220V, 1P	NBJ-402RC	BP-99983	JRC	1996	F-TA-PH-3		Good
3-2		**Isolation Transformer**							
1		40kVA, 380V, 3P (For TX)	NBL-227C	BP-99812	JRC	1996	F-TA-PH-3		Good
2		5kVA, 220V, 1P (For RX)	NBL-227F	BP-99823	JRC	1996	F-TA-PH-3		Good
3-3		**UPS & AVR**							
1		Accumulator 12V/200AH (4)			GS				Good
2		Accumulator 12V/200AH (2)			GS				Good
3		Accu Charger	E-7621		Shaun				Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
4		Accu Charger	KR-02415	NS-103610	Delta				Good
5		40kVA AVR (TX)	ERED-00011	S-23539	JRC	1987	F-TA-PH-1		Good
6		5kVA AVR (RX)	ERED-00014	S-23533	JRC	1987	F-TA-PH-1		Good
7		2kVA, 220V, 1P UPS Net Pro 2000	NP20A04	9605A016	JRC	1996	F-TA-PH-1		
3-4		**Engine Generator**							
1		Generator 40kVA (TX)	PX-G34A	G-113135	Taiyo	1987	F-TA-PH-1		Good
2		Generator 40kVA (TX)	PX-G34A	G-113138	Taiyo	1987	F-TA-PH-1		Good
3		Generator 5kVA (RX)	PX-G26A	G-113130	Taiyo	1987	F-TA-PH-1		Good
4		Generator 5kVA (RX)	PX-G26A	G-113132	Taiyo	1987	F-TA-PH-1		Good
5		Engine	F5L912	0507748C	M.Deutz	1987	F-TA-PH-1		Good
6		Engine	F5L912	0507746C	M.Deutz	1987	F-TA-PH-1		Good
7		Engine	F5L912	0213790C	M.Deutz	1987	F-TA-PH-1		Good
8		Engine	F5L912	0213793C	M.Deutz	1987	F-TA-PH-1		Good
4		**Measuring Equipment**							
1		Oscilloscope	2235	B-032362					Good
2		Signal Generator	MG-3601A	M-21237					Good
3		Frequency Counter	MF-57A	M-81236					Good
4		Audio Distortion Meter	796F	51753002					Good
5		Spectrum Analizer	MS-62B	M-17935					Good
6		Multi Meter	3010	5K1781					Good
7		Attenuator	KAT-502	7S-904-3					Good
8		Field Strength Meter	M-262E	M-43334					Good
9		Electronic Volt Meter	ML-69A	M-45435					Good
10		Output Meter	MS-52B	M-71234					Good
11		CM Direction Meter Coupler	MA-52A	M-11257					Good
12		Power Meter	TP-5J3A	32167					Good
13		Circuit Tester	AX-303TR	6C8701					Good
14		Power Meter	TP-5J1A	31989					Good
15		Signal Generator	MG-54D	M-51235					Good
16		Transmission Measuring Set	ME-446A	M-58136					Good
17		Frequency Counter	TR-5823	70570347					Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
18		Selective Level Meter Generator	AD-7530	73900902					Good
19		Psophometrics Weighting Network	NJM-776B	ES-11914					Good
20		Psophometrics Weighting Network	NJM-776B	ES-11915					Good
5		**Others**							
1		Dummy Load	DL-102A-SJ-A	98196-2					Good
2		Air Conditioner 2x1, 5PK	Split		Sanyo				Good
3		Air Conditioner 4x1, 5PK	Window		Sanyo				Good
4		Tool Kit (2)	ZPED00002						Good
5		Tool Kit (2)	MD-XP217A-74						Good
6		Motor Drive Wire Wrapper	EW-7D	791006					Good
7		Motor Drive Wire Wrapper	EW-7D	79V001					Good

STATUS OF TROUBLES

SITE NAME : SORONG **SRG-207-(1/2)**

Item / Equipment	Antenna Monocon 18M / -		
Manufacturer	England		
Manufacturer in year	1987		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☐ Aging		☐ Immediacy
	☑ Lightning		☐ By next year budget
	☐ Corrosion		☑ By next project
	☐ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

Needed routine maintenance
Un-sufficient Maintenance Budget
Un-sufficient Spare part
Un-sufficient Spare Unit

STATUS OF TROUBLES

SITE NAME : SORONG **SRG-207-(2/2)**

Item / Equipment	Power PLN/EG Panel, DSC / -		
Manufacturer	JRC		
Manufacturer in year	1988		
Defective panel / unit	E/G Panel Magnetic Contactor, RF Detector		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☑ Aging		☑ Immediacy
	☑ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

Request for spare part : Magnetic Contactor, Oil Filter, 2F diactor

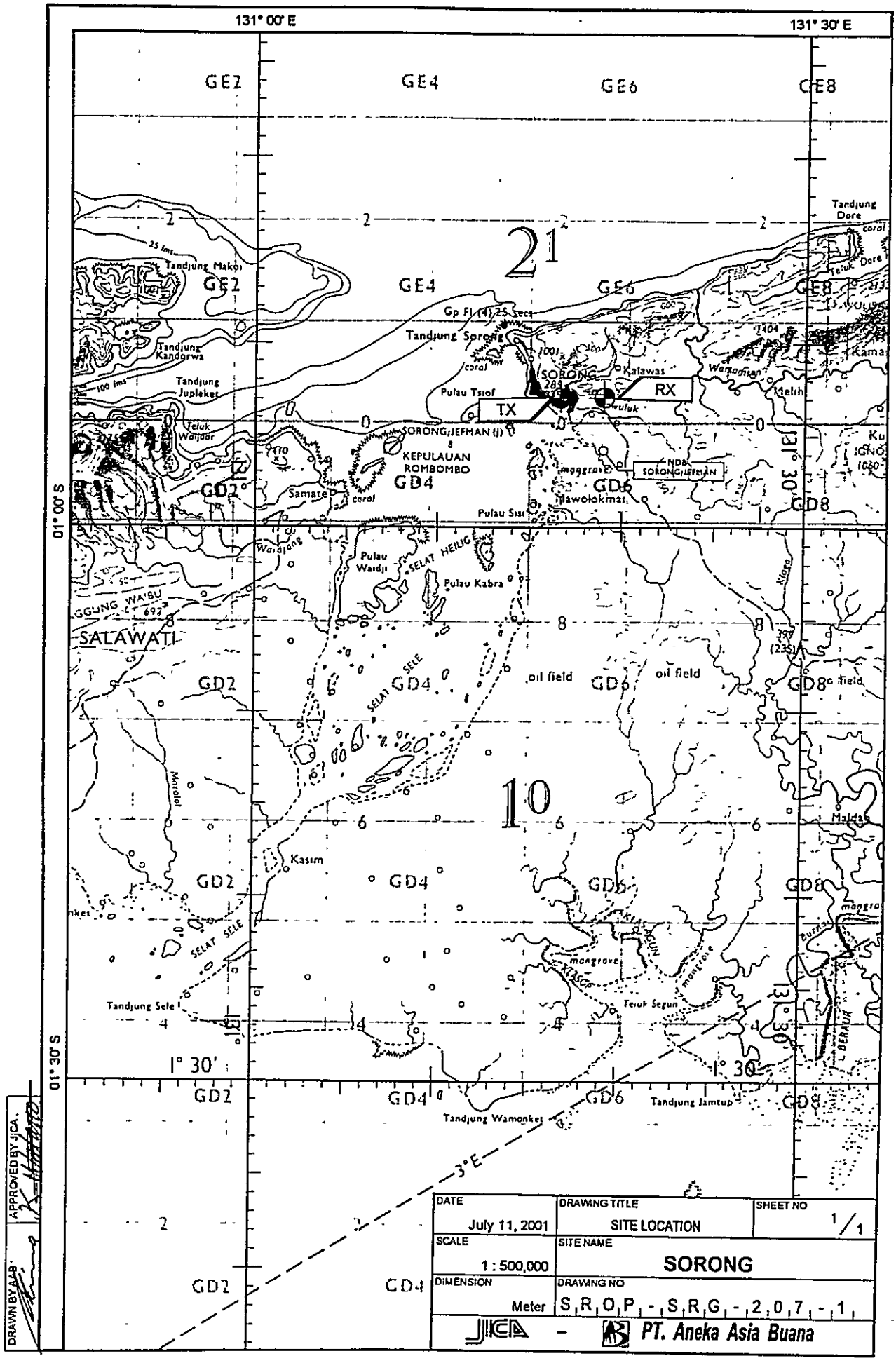
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Sorong

SRG-207-(1/1)

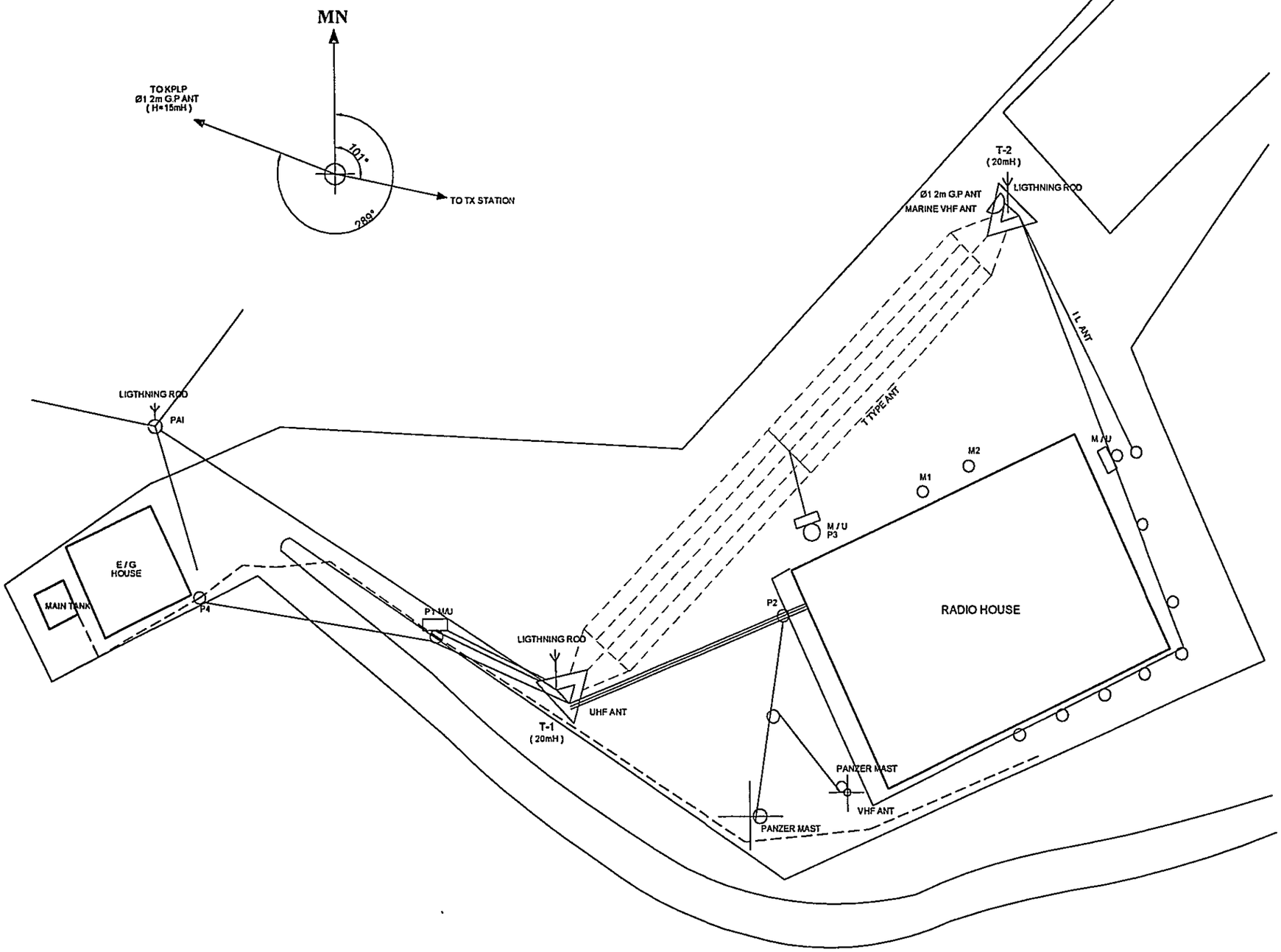
Call Sign : Mobile Service : PKY4
Fix Service .

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	500,0	A1A	1000		
2	6 337,0	A1A	1000		
3	8 461,0	A1A	1000		
4	12 971,0	A1A	1000		
5	2 182,0	J3E	1000		
6	4 420,0	J3E	1000		
7	6 215,0	J3E	1000		
8	8 800	J3E	1000		
9	2 187,5	J3E	1000		
10	2 174,5	J3E	1000		
	VHF Service				
11	156,800	F3E	50		
12	156,525	F3E	50		
	Fix Service				
13	6 926,0	J3E	250		
14	9 925,0	J3E	500		
15	11 060,0	J3E	500		
16	13 661,0	J3E	1000		
17					
18					
19					
20					
21					
22					
23					



DATE: July 11, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 : 500,000	SITE NAME: SORONG	
DIMENSION: Meter	DRAWING NO: S,R,O,P,-,S,R,G,-,2,0,7,-,1	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB | APPROVED BY JICA

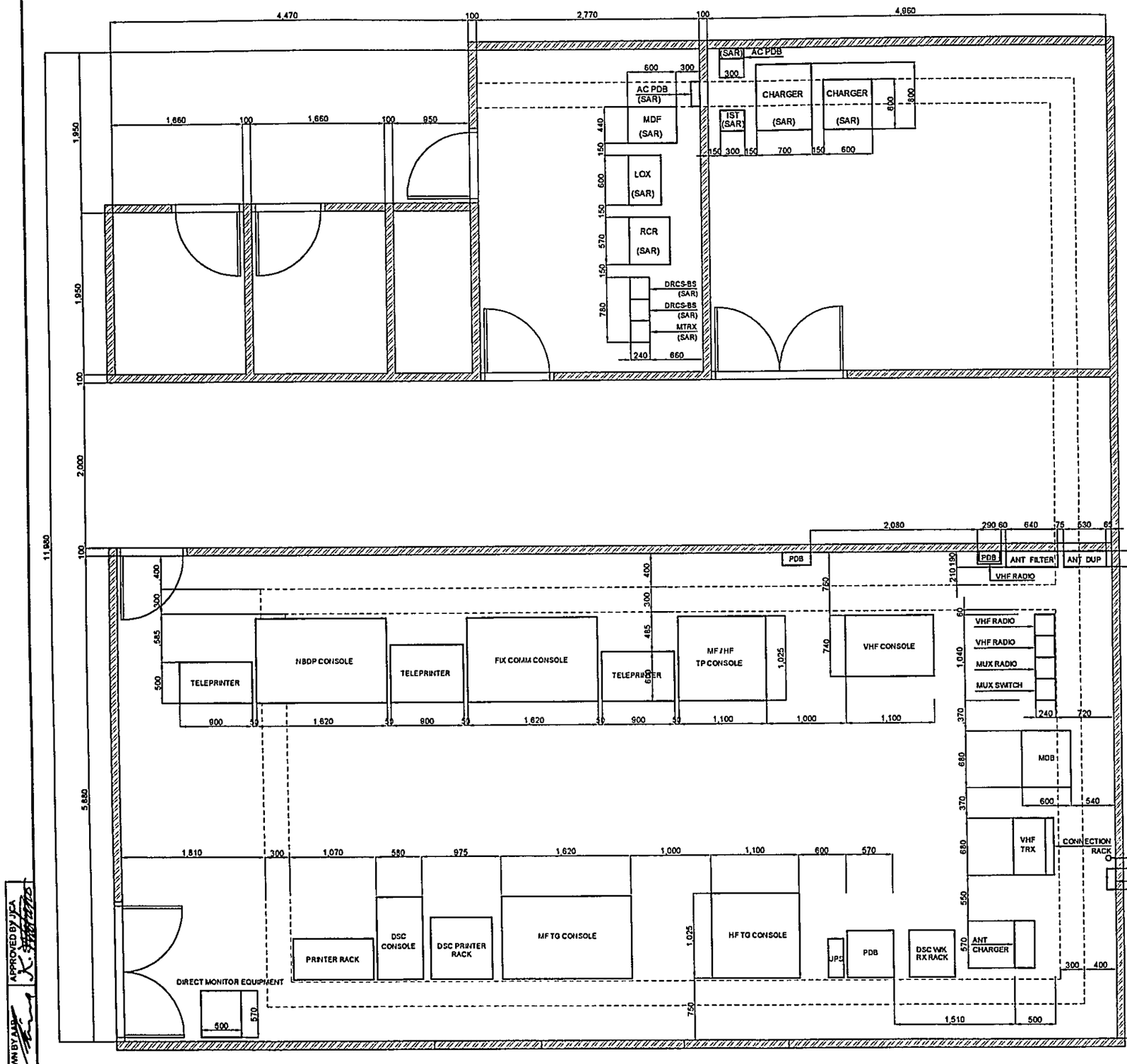


DRAWN BY AAB

APPROVED BY JICA:

DATE: July 13, 2001	DRAWING TITLE: ANTENNA LAYOUT FOR RX STATION	SHEET NO.: 1/1
SCALE: 1 : 250	SITE NAME: SORONG	
DIMENSION: Milimeter	DRAWING NO.: SROP-SRG-207-2R	

JICA – PT. Aneka Asia Buana



LEGEND

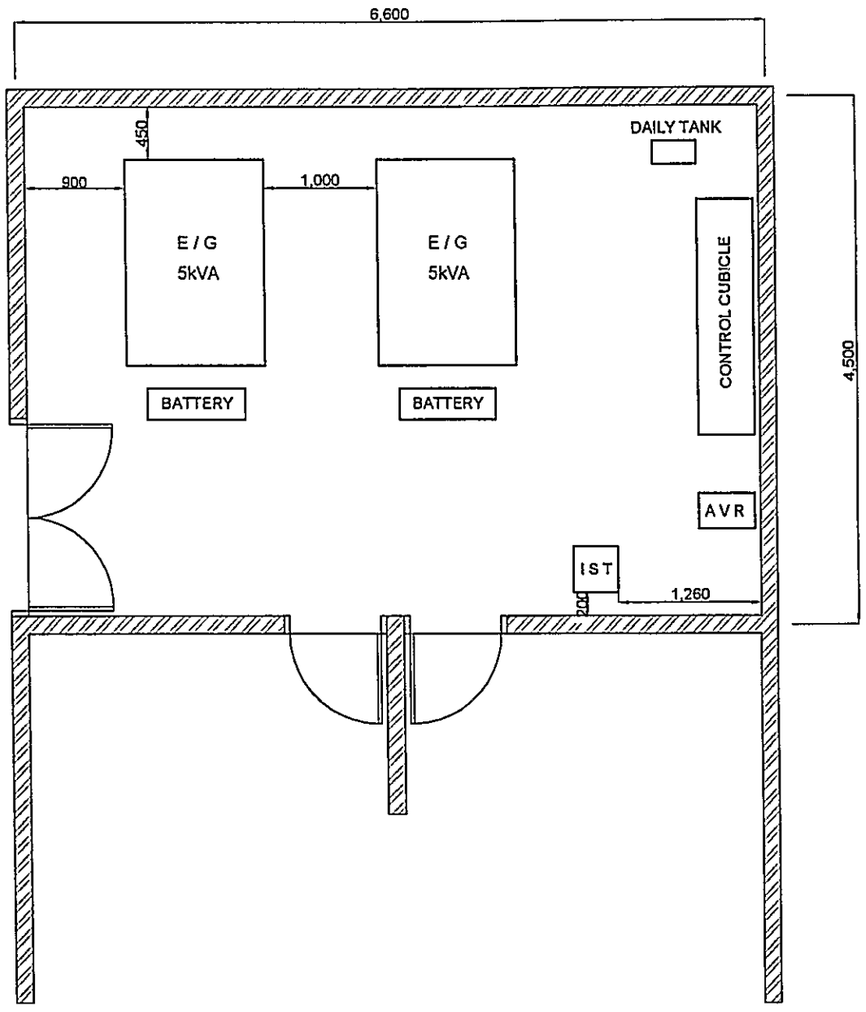
AC		ALTERNATING CURRENT
ANT	·	ANTENNA
DUP		DUPLEXER
FIX		FIX COMMUNICATION
HF		HIGH FREQUENCY
IST	·	ISOLATION TRANSFORMER
k	.	KILO
KVA		KILO VOLT AMPERE
LTU	·	LOCAL TERMINAL UNIT
MF		MEDIUM FREQUENCY
MDF	.	MAIN DISTRIBUTION FRAME
MUX		MULTIPLEXER
PDB		POWER DISTRIBUTION BOARD
PRN		PRINT
RX		RECEIVER (ING)
TFS		TRANSFER SWITCH
TRX	.	TRANSCEIVER (ING)
TX		TRANSMITTER (ING)
V		VOLT / VERTICAL OMMDIRECTIONAL
VA		VOLT AMPERE
VHF		VERY HIGH FREQUENCY
W		WIRE, WATT

DRAWN BY AAB

APPROVED BY JICA

DATE: July 13, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT FOR RX STATION	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: SORONG	
DIMENSION: Milimeter	DRAWING NO: SROP-SRG-207-3R	

JICA – PT. Aneka Asia Buana

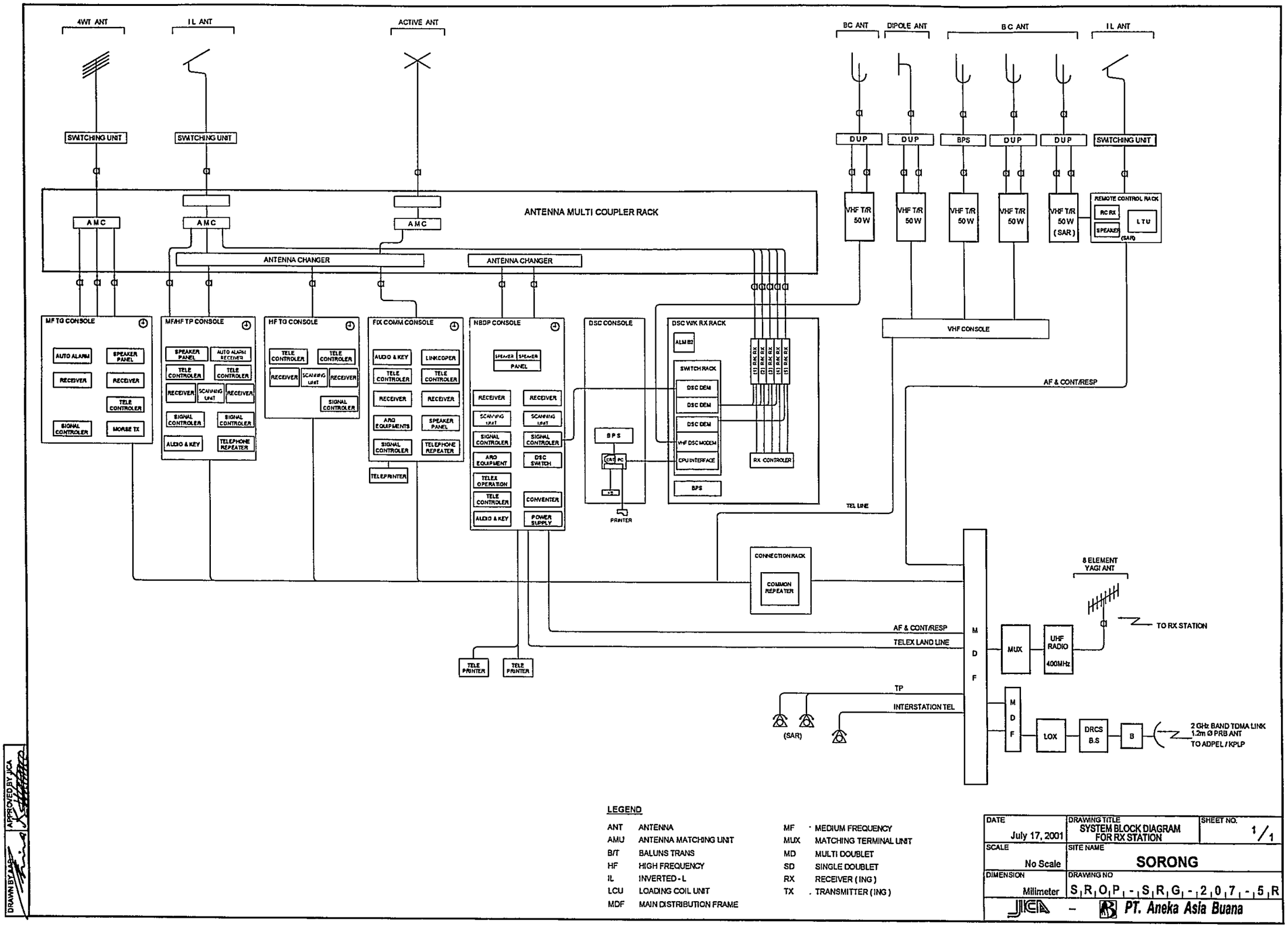


LEGEND

AVR : AUTOMATIC VOLTAGE REGULATOR
E/G : ENGINE GENERATOR
IST ISOLATION TRANSFORMER

DATE: July 13, 2001	DRAWING TITLE: E/G FLOOR LAYOUT FOR RX STATION	SHEET NO.: 1/1
SCALE: 1 : 50	SITE NAME: SORONG	
DIMENSION: Millmeter	DRAWING NO: SROP-SRG-207-4R	
JICA –	PT. Aneka Asia Buana	

DRAWN BY A&B
APPROVED BY JICA :



LEGEND

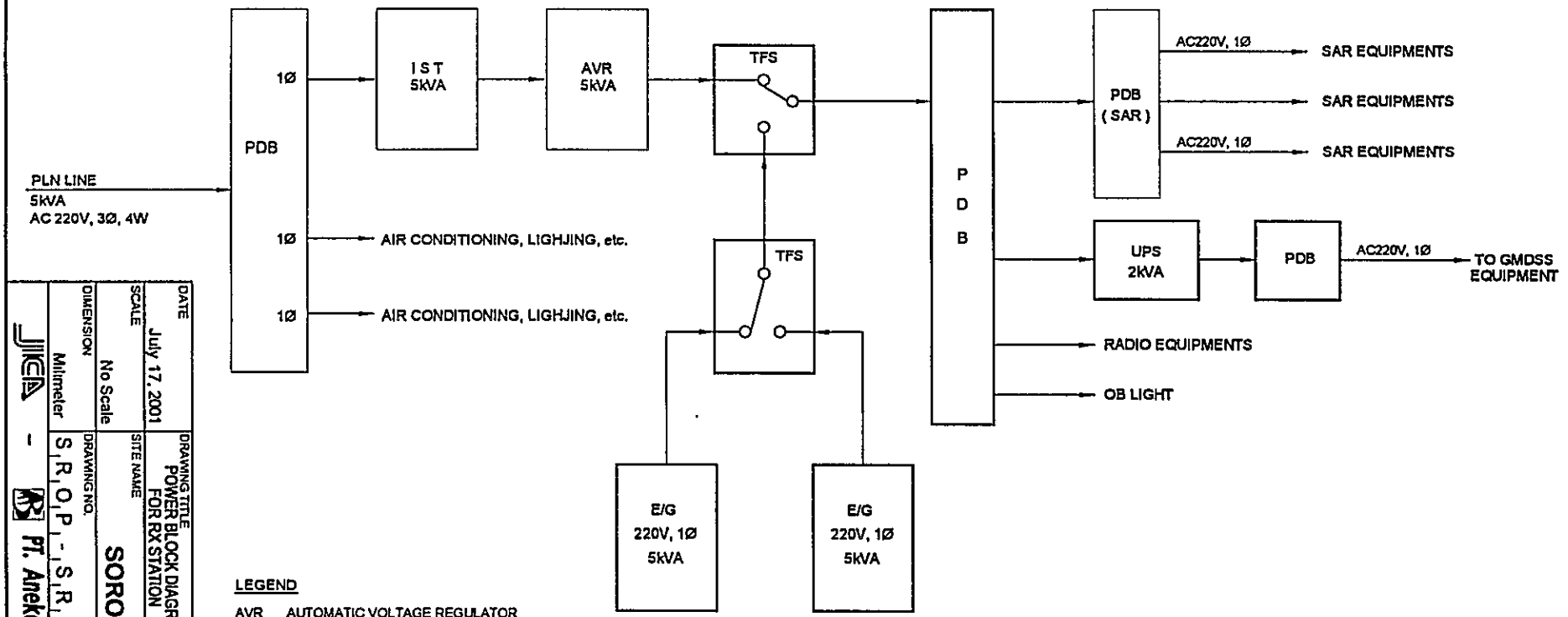
ANT	ANTENNA	MF	MEDIUM FREQUENCY
AMU	ANTENNA MATCHING UNIT	MUX	MATCHING TERMINAL UNIT
B/T	BALUNS TRANS	MD	MULTI DOUBLET
HF	HIGH FREQUENCY	SD	SINGLE DOUBLET
IL	INVERTED - L	RX	RECEIVER (ING)
LCU	LOADING COIL UNIT	TX	TRANSMITTER (ING)
MDF	MAIN DISTRIBUTION FRAME		

DRAWN BY JAB
APPROVED BY JICA

DATE: July 17, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM FOR RX STATION	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: SORONG	
DIMENSION: Milimeter	DRAWING NO: SROP-SRG-207-5R	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB

APPROVED BY JICA :

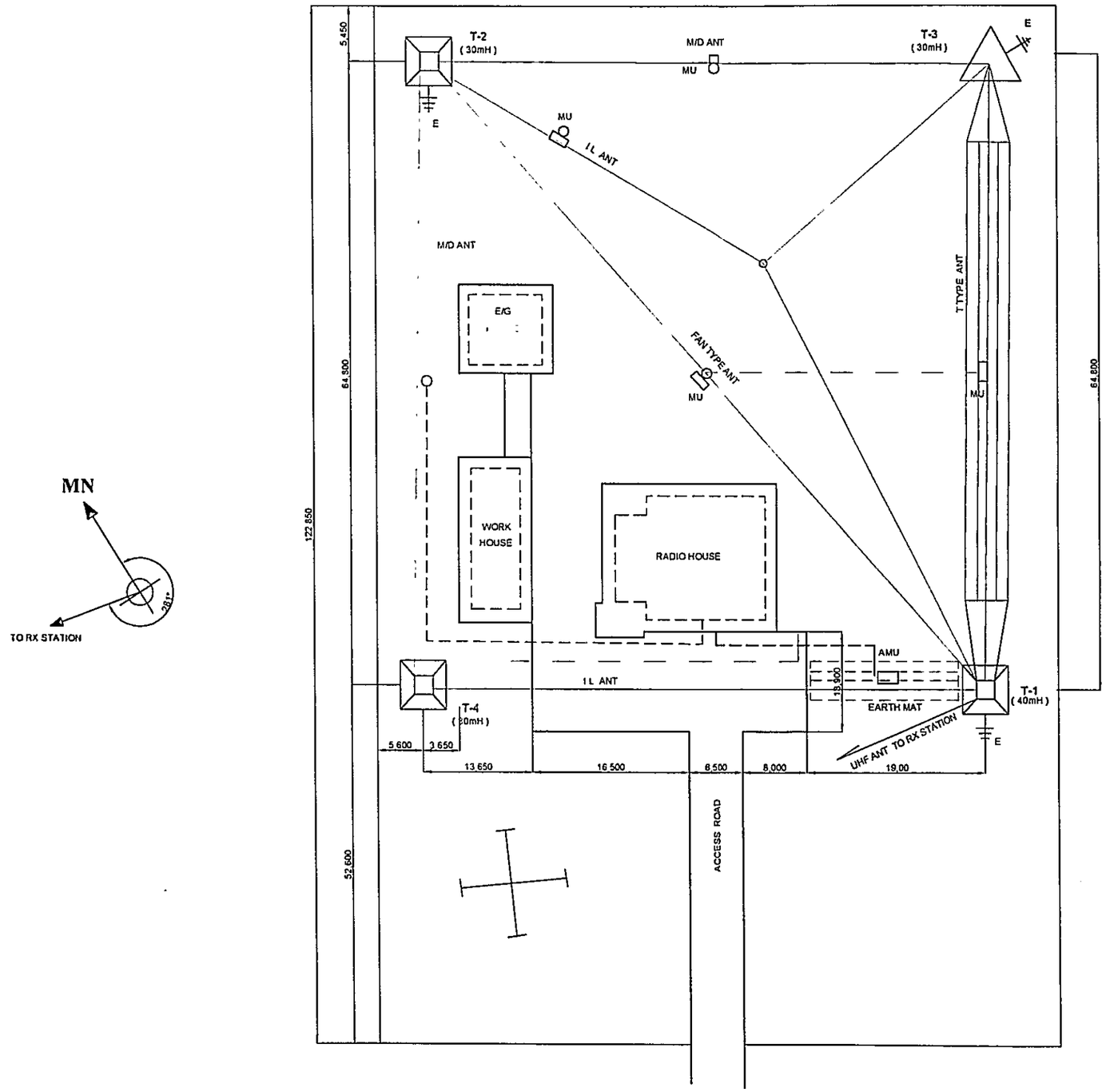


LEGEND

AVR	AUTOMATIC VOLTAGE REGULATOR
E/G	. ENGINE GENERATOR
IST	ISOLATION TRANSFORMER
kVA	KILO VOLT AMPERE
TFS	TRANSFER SWITCH
UPS	UNINTERRUPTED POWER SUPPLY
V	. VOLT
Ø	PHASE

JICA - PT. Aneka Asia Buana

DIMENSION	Milimeter
SCALE	No Scale
DATE	July 17, 2001
DRAWING NO.	S R O P - S R G - 2 0 7 - 6 R
SITE NAME	SORONG
DRAWING TITLE	POWER BLOCK DIAGRAM FOR RX STATION
SHEET NO	1 / 1

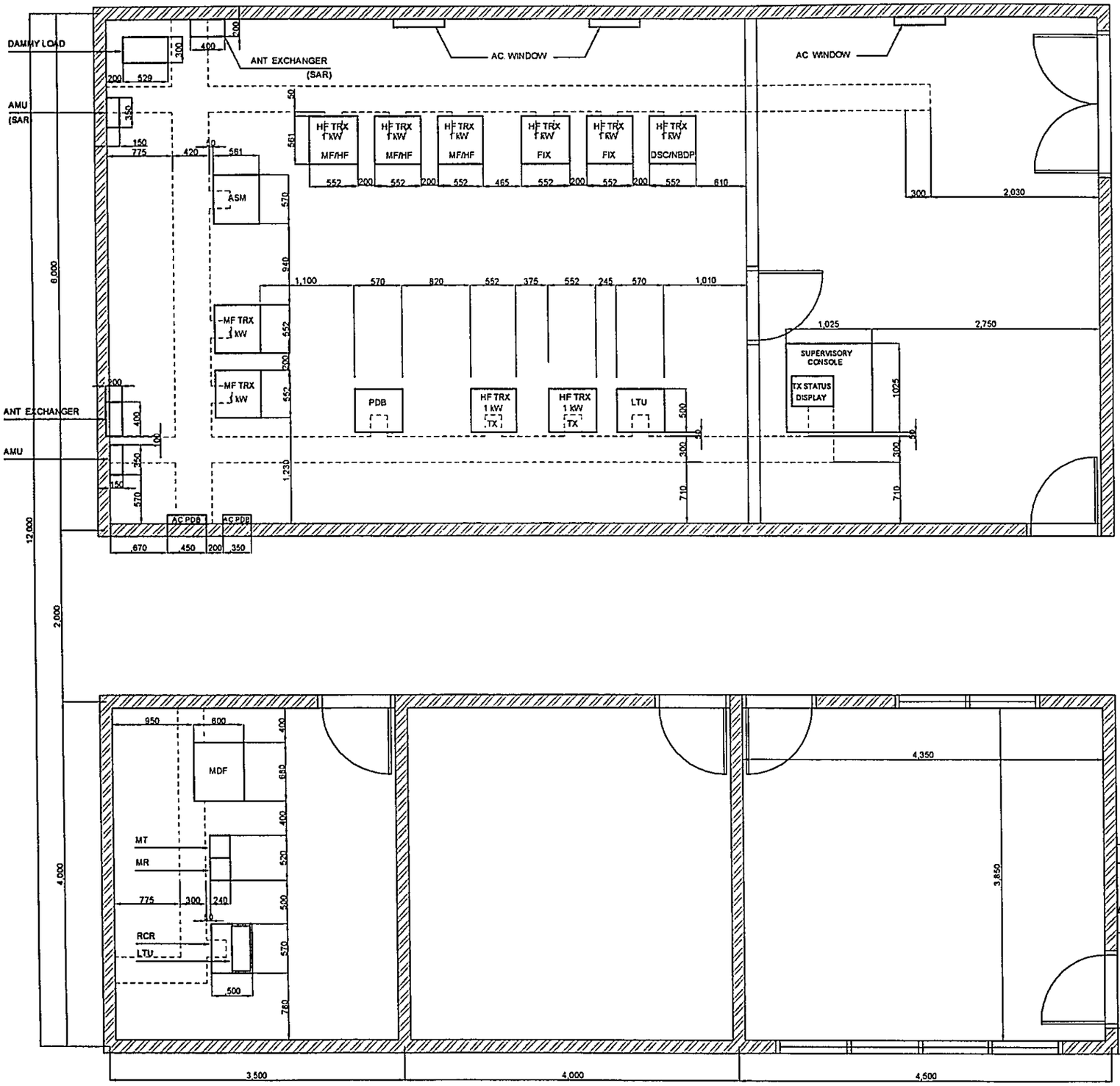


APPROVED BY JICA

DRAWN BY AAB

DATE: July 17, 2001	DRAWING TITLE: ANTENNA LAYOUT FOR TX STATION	SHEET NO.: 1/1
SCALE: 1 : 50	SITE NAME: SORONG	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,S,R,G,-,2,0,7,-,2,T	

JICA – PT. Aneka Asia Buana



LEGEND

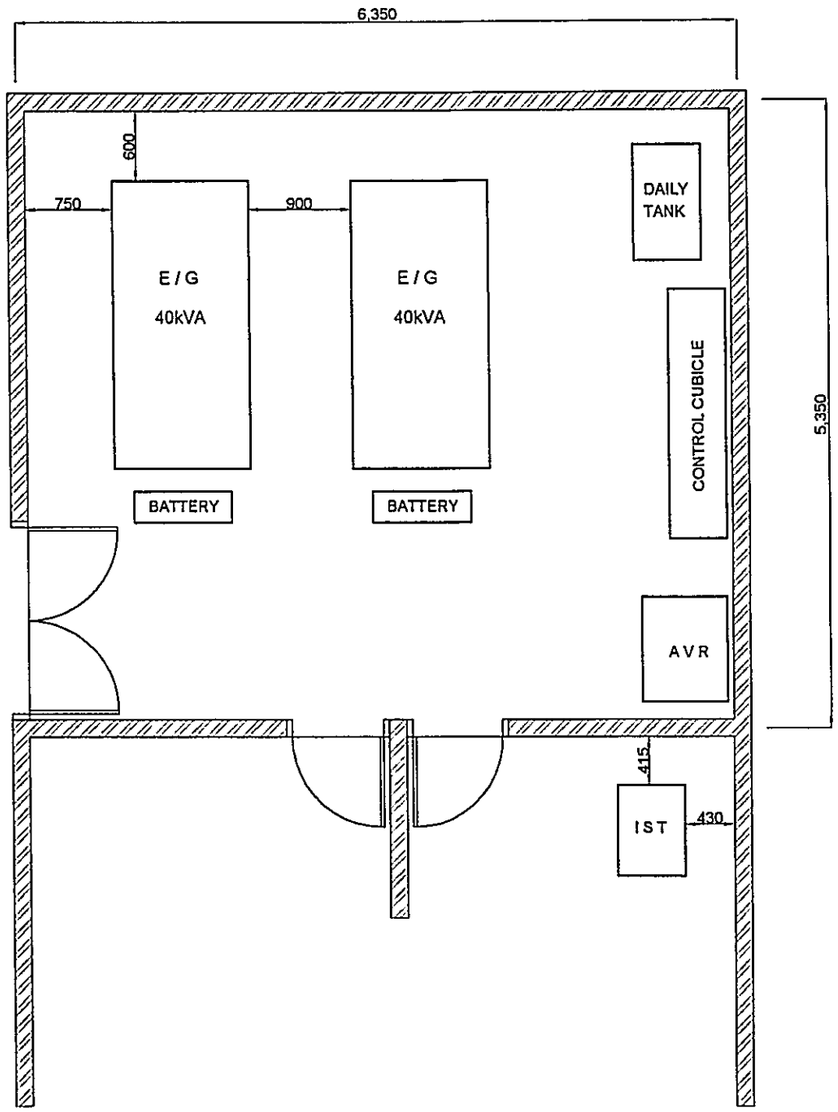
AC	ALTERNATING CURRENT
ANT	ANTENNA
DUP	DUPLEXER
FIX	FIX COMMUNICATION
HF	HIGH FREQUENCY
IST	ISOLATION TRANSFORMER
kVA	KILO VOLT AMPERE
LTU	LOCAL TERMINAL UNIT
MF	MEDIUM FREQUENCY
MDF	MAIN DISTRIBUTION FRAME
MUX	MULTIPLEXER
PDB	POWER DISTRIBUTION BOARD
PRN	PRINT
RX	RECEIVER (ING)
TFS	TRANSFER SWITCH
TRX	TRANSCEIVER (ING)
TX	TRANSMITTER (ING)
V	VOLT / VERTICAL OMMDIRECTIONAL
VA	VOLT AMPERE
VHF	VERY HIGH FREQUENCY
W	WIRE, WATT

DRAWN BY AAB

APPROVED BY JICA

DATE: July 17, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT FOR TX STATION	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: SORONG	
DIMENSION: Milimeter	DRAWING NO.: SROP-SRG-207-3T	

JICA – PT. Aneka Asia Buana



LEGEND

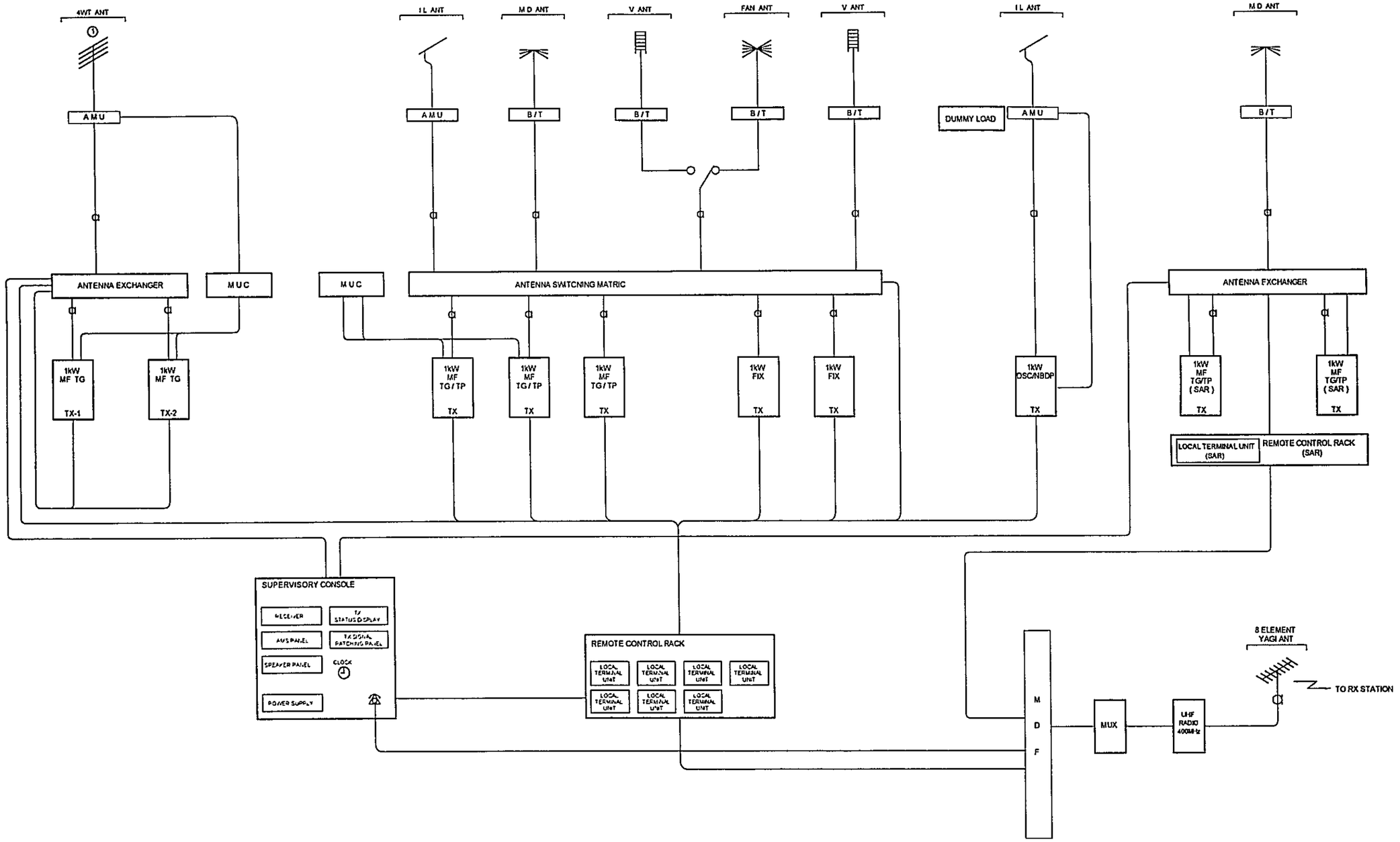
AVR . AUTOMATIC VOLTAGE REGULATOR
E/G · ENGINE GENERATOR
IST ISOLATION TRANSFORMER

DRAWN BY AAB

APPROVED BY JICA

DATE: July 17, 2001	DRAWING TITLE: E/G FLOOR LAYOUT FOR TX STATION	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: SORONG	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,S,R,G,-,2,0,7,-,4,T	

JICA – PT. Aneka Asia Buana



LEGEND

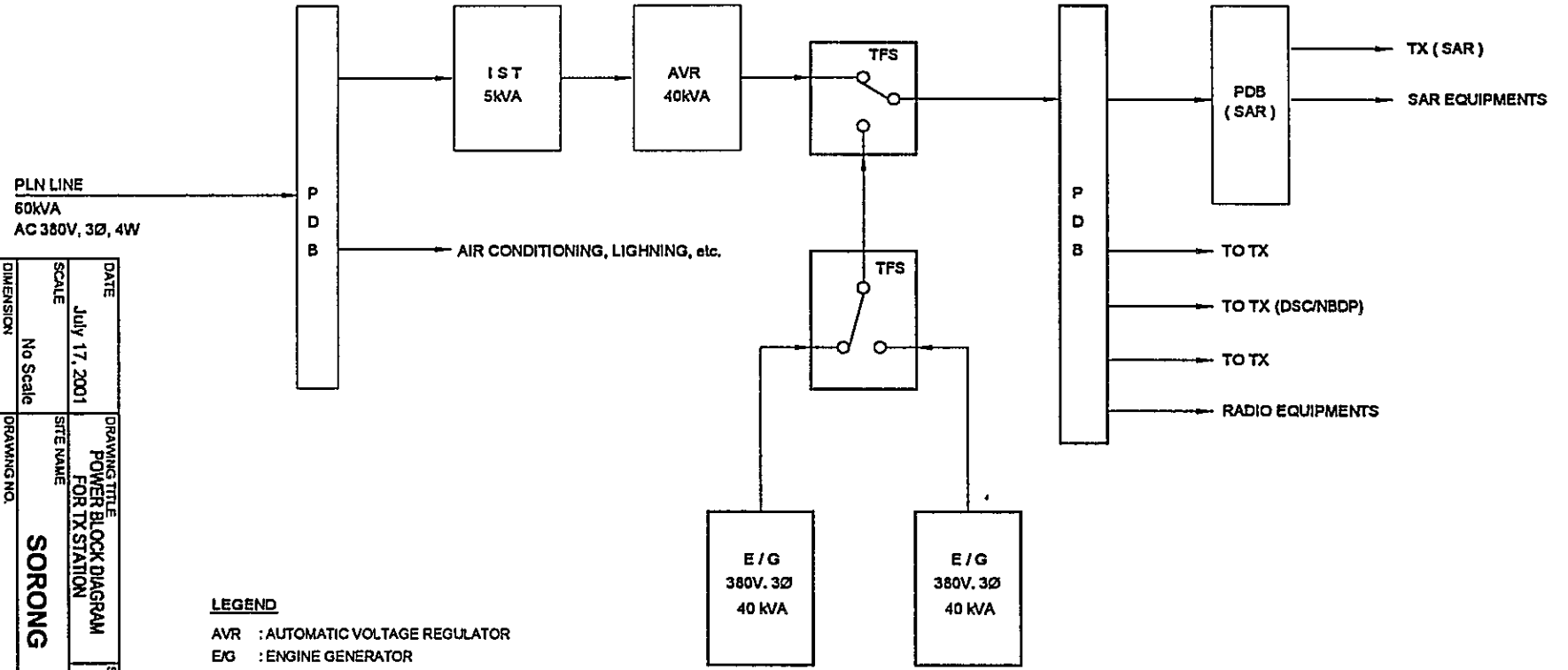
ANT	ANTENNA	MD	MULTI DOUBLET
AMU	ANTENNA MATCHING UNIT	MF	. MEDIUM FREQUENCY
B/T	BALUNS TRANS	MDF	MAIN DISTRIBUTION FRAME
DSC	. DIGITALL SELECTIVE CALLING	MUC	. MATCHING UNIT CONTROL
AVR	AUTOMATIC VOLTAGE REGULATOR	NBDP	NARROW - BAND DIRECT - PRINTING
FIX	FIX COMMUNICATION	TX	. TRANSMITTER (ING)
HF	. HIGH FREQUENCY	V	. VERTICAL OMMDIRECTIONAL
IL	INVERTED L	WT	: WIRE T TYPE

DRAWN BY A&B:

APPROVED BY JICA

DATE: July 17, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM FOR TX STATION	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: SORONG	
DIMENSION: Millimeter	DRAWING NO.: SROP-SRG-207-5T	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB | APPROVED BY JICA



LEGEND

AVR : AUTOMATIC VOLTAGE REGULATOR
E/G : ENGINE GENERATOR
IST : ISOLATION TRANSFORMER
KVA : KILO VOLT AMPERE
TFS : TRANSFER SWITCH
V : VOLT
Ø : PHASE

JICA – PT. Aneka Asia Buana

DIMENSION	Milimeter
SCALE	No Scale
DATE	July 17, 2001
DRAWING NO.	S,R,O,P,-,S,R,G,-,2,0,7,-,6,T
SITE NAME	SORONG
DRAWING TITLE	POWER BLOCK DIAGRAM FOR TX STATION
SHEET NO	1/1

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

3rd Class Coast Station

Manokwari

(Coast Station No. 208)

Table of Content

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

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	MANOKWARI		
CLASS	3rd	NO.	208

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Banjarmasin	962-211333		134° 04′ 37″ E	00° 51′ 56″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Biak	[Taking time: 6·10 hr]	☐ Highway	☐ Heavy	☑ Hotel	100
By Air	to Manokwari	[Taking time 1.00 hr.]	☑ Paved	☑ Medium	☐ Motel	
By Car	to Location	[Taking time 0.30 hr]	☐ Unpaved road	☐ Light		
				☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system	
				Yes	No
☑ Flat	☐ Dry soil	☐ Limestone	☐ Flood	☑	☐ Antenna
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑	☐ Towers (Masts)
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☑	☐ Grounding system
☐ Basin	☐ Clay		☐ Ground Subsidence	☑	☐ Lightning system
☐ Valley	☑ Sandy		☑ Leakage	☑	☐ Feeder Cable Way
Altitude	2.00 M		**Telephone Lines**	☑	☐ City water
Land area	8,700 m²		☐ Lines	☐	

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Slate
Type of ceiling	Board
Type of wall	Brick
Wall finish	Mortar
Flooring	Tile
Room Area (m²)	
Operation room	43.00
E / G room	11.00
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	1	3
Wire	2	4
kVA	3.5	10

Quality of PLN source		
Fluctuations	220 V ± 1 %	
Availability of power per day	24 Hours	
Power interruption /month	2 Times	
Total interpt. hours /month	0.05 Hours	
Max. interpt. hours at once	Hours	

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

Capacity of fuel for engine	
Day tank	40 Liter
Main tank	0.6 k Liter

E/G Stand-by System

☑ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	If possible equipments replacement
Examples of major failure	Difficulty to get spare parts
Sufficiency of spares	

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

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

5. PERSONNEL FORMATIONS

	TX/RX	
Chief	1	
Operator (skilled)	8 ()	()
Technician (skilled)	()	()
Administrator		
T o t a l	9	

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	MANOKWARI		
CLASS	3rd	NO.	208

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 site antenna fence for protecting the tower from the possibility of car crashed incidence.
Remarks	

INVENTORY

Site Name: Manokwari

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**MF/HF System**							
1-1-1		**MF/HF Transceiver**							
1		SSB Transceiver	NTD-177	BS-14335	JSB-50	1974			
2		SSB Transceiver	NTD-177	BS-14336	JSB-50	1974			
3		SSB Transceiver	FT-300C	083040131	Yaesu	1983			
4		SSB Transceiver	FT-300C	91100100		1983			
5		SSB Transceiver	CH-25	6949	CMC	1974			
6		SSB Radio Phone	FS-1000	S/N 5590	Furuno	1986			
1-1-2		**MF/HF Receiver**							
1		All Wave Receiver	NRD	1061(TSA)	JRC	1974			
1-1-2		**MF/HF Operation Console**							
1		MF/HF Console	RH-16-3		Sailor	1996	F-TA-193: PH3		Good
2		MF/HF Equipment							
		600 W MF/HF Transmitter	T2131		Sailor	1996	F-TA-193: PH3		Good
		600 W MF/HF Transmitter	T2131		Sailor	1996	F-TA-193: PH3		Good
		AC Power Supply	N2171		Sailor	1996	F-TA-193: PH3		Good
		AC Power Supply	N2171		Sailor	1996	F-TA-193· PH3		Good
		Antenna Coupler	AT2112		Sailor	1996	F-TA-193: PH3		Good
		Antenna Coupler	AT2112		Sailor	1996	F-TA-193: PH3		Good
		CW Unit	H2185		Sailor	1996	F-TA-193: PH3		Good
		CW Unit	H2185		Sailor	1996	F-TA-193: PH3		Good
3		All Wave Receiver							
		Control Unit HF1	RE2100		Sailor	1996	F-TA-193: PH3		Good
		Control Unit HF2	RE2100		Sailor	1996	F-TA-193: PH3		Good
		Duplex Receiver	R2120T		Sailor	1996	F-TA-193: PH3		Good
		Duplex Receiver	R2120T		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

INVENTORY

Site Name: Manokwari

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
4		Spot Receiver							
		MF/HF DSC W/K RX	RM2150		Sailor	1996	F-TA-193: PH3		Good
		Power Supply	N2165		Sailor	1996	F-TA-193· PH3		Good
5		Terminal Unit (DSC VHF/HF)							
		DSC System	TT-6200A		Sailor	1996	F-TA-193: PH3		Good
		LAN	TT-101064		Sailor	1996	F-TA-193: PH3		Good
		LAN I/O	TT-101065		Sailor	1996	F-TA-193: PH3		Good
		CPU	TT-101051		Sailor	1996	F-TA-193: PH3		Good
		CPU I/O	TT-10123		Sailor	1996	F-TA-193: PH3		Good
		Paralel	TT-101190		Sailor	1996	F-TA-193: PH3		Good
		Paralel I/O	TT-101217		Sailor	1996	F-TA-193: PH3		Good
		VHF Modem	TT-102239		Sailor	1996	F-TA-193: PH3		Good
		HF Modem	TT-1022337		Sailor	1996	F-TA-193· PH3		Good
		Modem I/O	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		Compaq	1996	F-TA-193: PH3		Good
		2) Monitor	140		Compaq	1996	F-TA-193: PH3		Good
		Printer (H-1252A)	TT-1608C		Sailor	1996	F-TA-193: PH3		Good
		Monitor Display	TT-3602B		Sailor	1996	F-TA-193: PH3		Good
		DSC Alarm	TT-1542B		Sailor	1996	F-TA-193: PH3		Good
6		Signal Control Panel							
		Audio/Digital Matrix	MTX-1616		Sailor	1996	F-TA-193: PH3		Good
		Keyer	KK-1		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
7		Telephone Repeater (Phone Patch)							
		Radio/Tel I/F Unit	RTU-282		Sailor	1996	F-TA-193: PH3		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
8		ARQ Equipment							
		Radiotelex Modem	TT-1585E		Sailor	1996	F-TA-193: PH3		Good
		ARQ Key Board	TT-1601 A		Sailor	1996	F-TA-193: PH3		Good
		Printer (H1252A)	TT-1680C		Sailor	1996	F-TA-193: PH3		Good
		Telex Alarm	TT-1542B		Sailor	1996	F-TA-193: PH3		Good
1-2		**VHF System**							
1-2-1		**VHF Transceiver**							
1		VHF/FM Transceiver	JHV-217	CE51-61	INTI	1990			
2		VHF/FM Transceiver	JHV-217	CE51-62	INTI	1990			
1-2-2		**VHF Operation Console**							
1		Operation Console	RH-16-1		JRC	1996			
2		Multichannel VHF Transceiver							
		VHF Transceiver	RT 2048		Sailor	1996	F-TA-193: PH3		Good
		VHF Transceiver	RT 2048		Sailor	1996	F-TA-193: PH3		Good
		VHF Transceiver	RT 2048		Sailor	1996	F-TA-193: PH3		Good
		VHF Transceiver	RT 2048		Sailor	1996	F-TA-193: PH3		Good
		Linier Power Amplifier	A2080BE-H		Sailor	1996	F-TA-193: PH3		Good
		Linier Power Amplifier	A2080BE-H		Sailor	1996	F-TA-193: PH3		Good
		Linier Power Amplifier	A2080BE-H		Sailor	1996	F-TA-193. PH3		Good
		Linier Power Amplifier	A2080BE-H		Sailor	1996	F-TA-193: PH3		Good
		Duplex Filter			Sailor	1996	F-TA-193· PH3		Good
		Duplex Filter			Sailor	1996	F-TA-193: PH3		Good
2		CH-70 VHF T/R							
		VHF Transceiver	RT2048		Sailor	1996	F-TA-193: PH3		Good
		High Low I/F Unit (2)			Sailor	1996	F-TA-193: PH3		Good
		RF Power Amplifier	A2080BE-H		Sailor	1996	F-TA-193: PH3		Good
		AC Power Supply	N163S		Sailor	1996	F-TA-193: PH3		Good
		DC Power Supply	N420		Sailor	1996	F-TA-193: PH3		Good
		AC Power Supply	PSF-1		Sailor	1996	F-TA-193: PH3		Good
3		Term Equipt. (DSC VHF/HF)							
		Audio/Digital Matrix	MTX-1616		Sailor	1996	F-TA-193 PH3		Good
4		Telephone Repeater							
		Radio/Tel I/F Unit	RTU-280		Sailor	1996	F-TA-193: PH3		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
1		18mHx2 Panzer Mast							
2		20mHx2 Tower	Triangle						
3		8mHx1 Steal Pipe							
2-2		**Antenna System**							
1		I/L Antenna T/R (2)	HF7		Sailor	1996	F-TA-193: PH3		
2		D/D Antenna	E-22		Sailor	1996	F-TA-193: PH3		
3		VHF Antenna (3)	VHF 3		Sailor	1996	F-TA-193: PH3		
2-3		**Antenna Selector**							
1		Antenna Coupler							
2		XMTR Selector							
3		Antenna Distributor	AAD10/1/A-J1-6G		Sailor	1996	F-TA-193. PH3		
3		**Power Supply Equipment**							
3-1		**Power Distribution Board**							
1		Power Distribution Board	NCB-430A	BP-10297	JRC	1974			Damaged
2		7.5kVA PDB			Sailor	1996	F-TA-193: PH3		Good
3		10 kVA Control Panel (AMF)	PL 95-7s	9515	Sailor	1996	F-TA-193: PH3		Good
3-2		**Isolation Transformer**							
1		7 5kVA, 4W, 3P	IST 10P3	9513	Sailor	1996	F-TA-193: PH3		Good
3-3		**Step-Up Transformer**							
1		Transformer 3.5kVA			M'Naga				
2		9.9kVA, 4W, 3P	STU 10P3	9513	Sailor	1996	F-TA-193· PH3		Good
3-4		**UPS & AVR**							
1		DC Power Supply 13 8V/30A							
2		Accumulator 12V/120AH			Yuasa				
3		Accu Charger	12 ELN	9658	Stanley				
4		Auto Voltage Regulator	YAC-5K	A3-4316	Y'Bishi	1973			
5		AVR . 7.5kVA, 4W, 3P	AVR7P3	9515	Sailor	1996	F-TA-193. PH3		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3-4		**Engine Generator**							
1		Engine Generator	TS-60	00717	Yanmar	1974			
2		5 kVA Engine Generator	TS-130C	FTT-0009	Yanmar	1974			
3		10 kVA E/G Single Standby System			Sailor	1996	F-TA-193: PH3		Good
		Engine	EG 10 RA		Sailor	1996	F-TA-193: PH3		Good
		Generator	V-1505E	CO51634/5	Sailor	1996	F-TA-193: PH3		Good
		E/G Panel	BC1-164-D		Sailor	1996	F-TA-193: PH3		Good
4		Fuel System							
		Starting, Fuel, Exhaust System			Sailor	1996	F-TA-193: PH3		Good
		Fuel Control Unit			Sailor	1996	F-TA-193: PH3		Good
		100 L Fuel Day Tank			Sailor	1996	F-TA-193: PH3		Good
		1000 L Fuel Storage Tank			Sailor	1996	F-TA-193: PH3		Good
4		**Measuring Equipment**							
1		Oscilloscope	VP-508A	117049		1974			
2		Analog Oscilloscope	PM3065		Sailor	1996	F-TA-193: PH3		Good
		Probe/Lead (2)							
		Power Cable (1)							
		Black Cover (1)							
		Operation Manual							
3		Multimeter (3)	Fluke 87		Sailor	1996	F-TA-193: PH3		Good
		Test Lead Set (3x1)							
		Hoester House Yellow (3x1)							
		User Manual (3x2)							
4		Insulation Tester	2406A		Sailor	1996	F-TA-193: PH3		Good
		Line Plobe (1)							
		Earth Plobe (1)							
		Carrying Case x1)							
		Instruction Manual (1)							
5		RF Coaxial Load Resistor (2)	8201		Sailor	1996	F-TA-193: PH3		Good
		Connection Cable (1)							

INVENTORY

Site Name: Manokwari

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
5		**Others**							
1		Air Conditioner	Cool Wood	2200	Hitachi				
2		Services Engineers Kit	RS 541-365	1	JRC	1996			
3		Telephone set with call timer (2)			Sailor	1996	F-TA-193: PH3		Good
4		Headset (2)	DM 811		Sailor	1996	F-TA-193: PH3		Good
5		Hand set (6)			Sailor	1996	F-TA-193: PH3		Good
6		Desk Microphone (2)	DM 6500		Sailor	1996	F-TA-193: PH3		Good
7		Morse Key			Sailor	1996	F-TA-193: PH3		Good
8		Quartz Clock			Sailor	1996	F-TA-193: PH3		Good
9		Services Engineers Kit	RS 541-365		Sailor	1996	F-TA-193: PH3		Good
10		Mouse			Sailor	1996	F-TA-193: PH3		Good
11		Chair			Sailor	1996	F-TA-193: PH3		Good

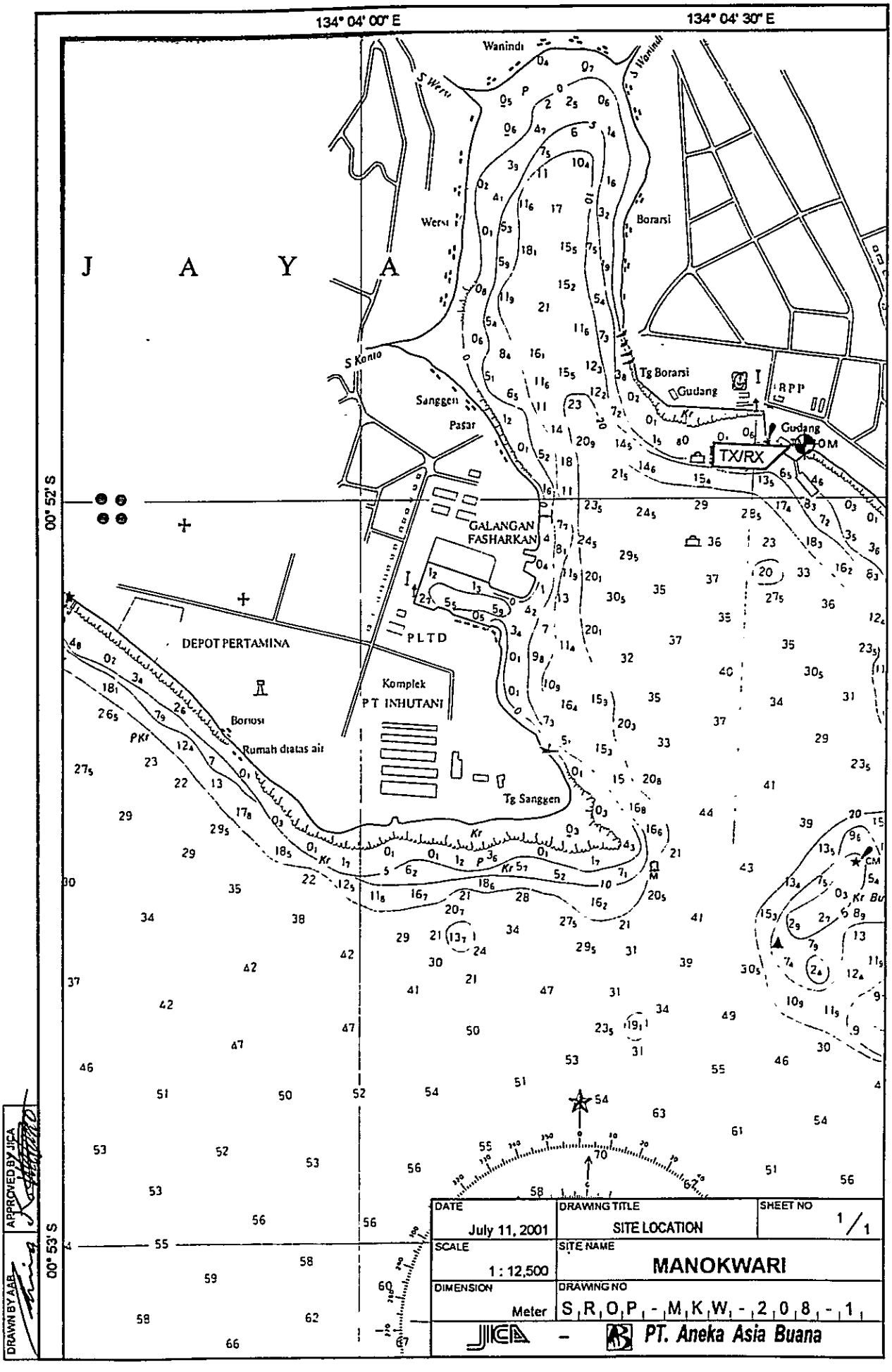
OPERATION SCHEDULE (FREQUENCIES)

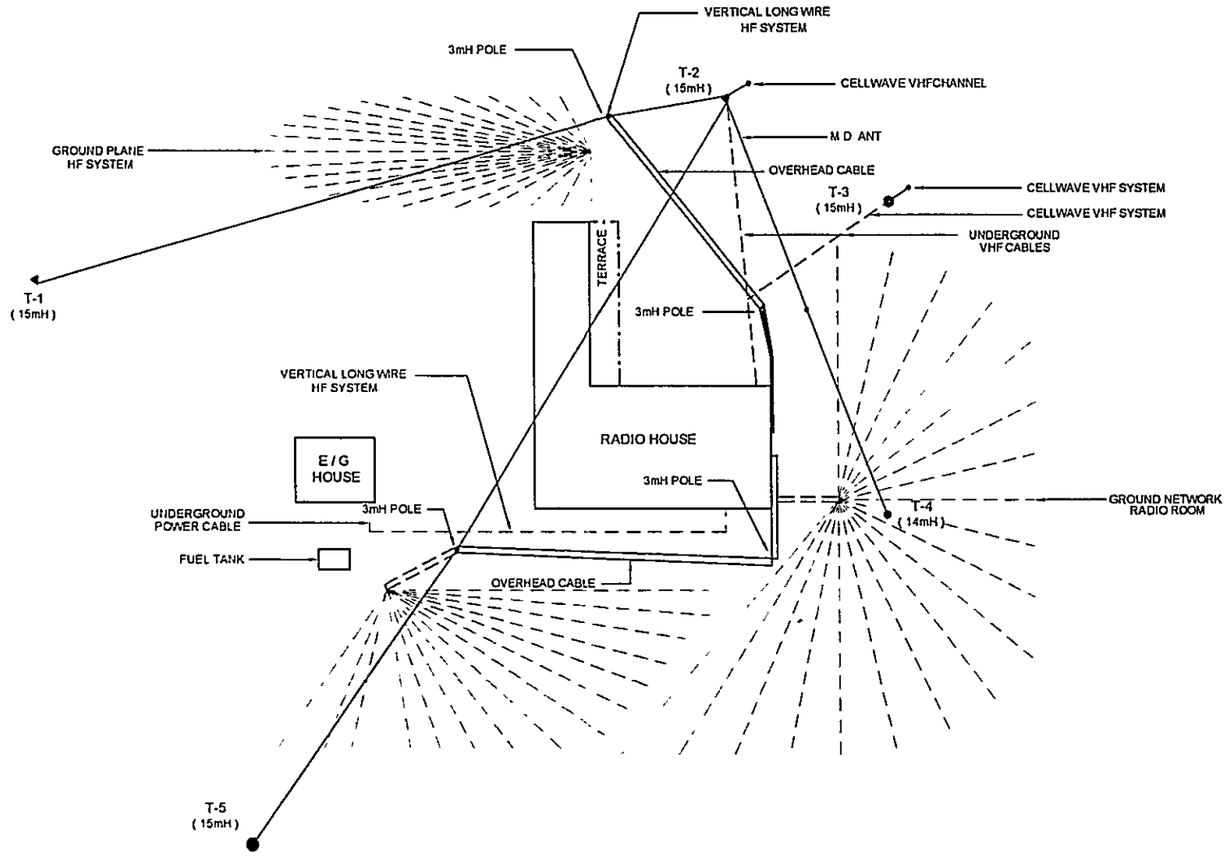
Site Name: Manokwari

MKW-208-(1/1)

Call Sign : Mobile Service : PKY.3
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2 174,5	F1B	500		
2	2 177,0	F1B	500		
3	2 187,5	F1B	500		
4	2 182,0	J3E	100		
5	4 125,0	J3E	100		
6	6 215,0	J3E	100		
	VHF Service				
7	157,000	G2B	50		
8	156,800	G3E	50		
9	156,525	G3E	50		
	Fix Service				
10	6 926,0	J3E	100		
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					

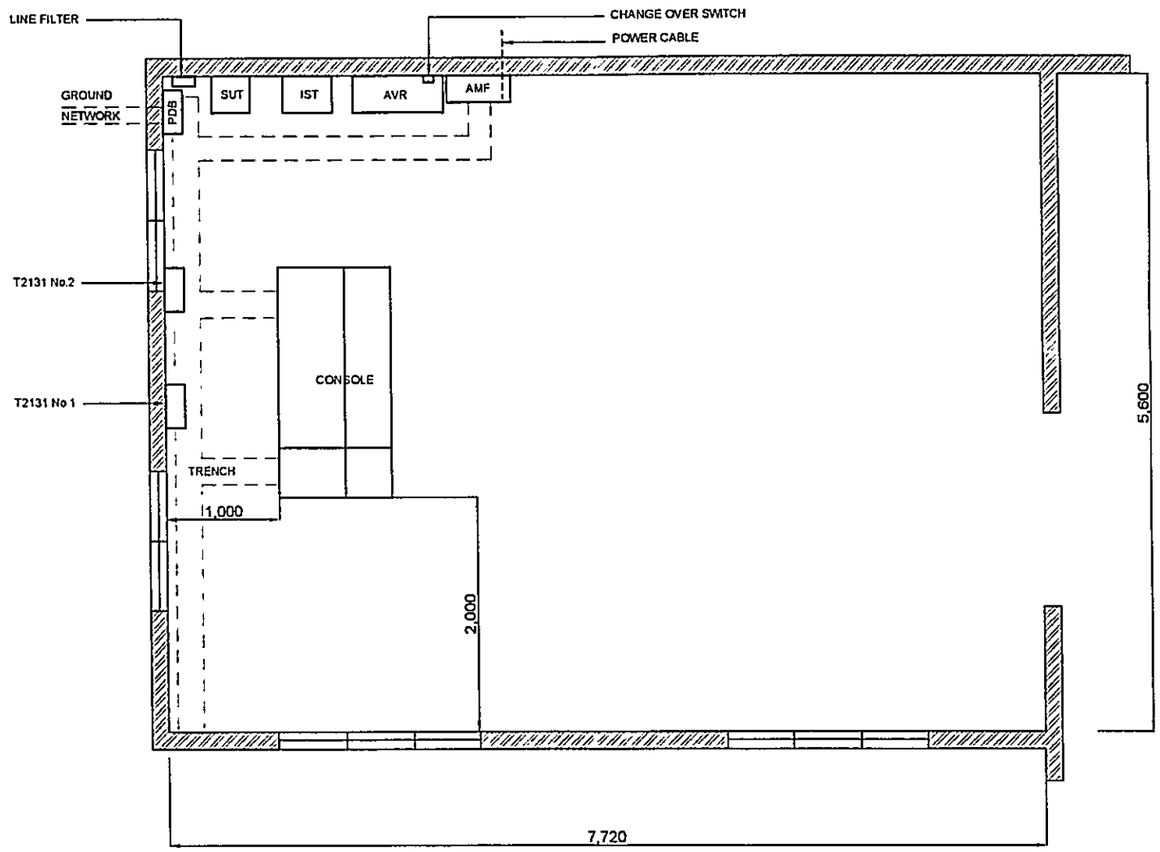

134° 04' 00" E
134° 04' 30" E
00° 52' S
00° 53' S
J A Y A
Wanindi
S Werui
J Wanindi
Werui
Borarsi
S Konto
Sanggen
Pasar
Tg Borarsi
Gudang
RPP
Gudang
OM
TX/RX
GALANGAN FASHARKAN
PLTD
DEPOT PERTAMINA
Komplek
PT INHUTANI
Borosi
Rumah diatas air
Tg Sanggen
CM
APPROVED BY JICA
DRAWN BY AAB
DATE
July 11, 2001
DRAWING TITLE
SITE LOCATION
SHEET NO
1/1
SCALE
1 : 12,500
SITE NAME
MANOKWARI
DIMENSION
Meter
DRAWING NO
S,R,O,P,-,M,K,W,-,2,0,8,-,1
JICA - PT. Aneka Asia Buana



DRAWN BY JAB

APPROVED BY JICA

DATE: July 13, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 . 500	SITE NAME: MANOKWARI	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,M,N,K,-,2,0,8,-,2,	
JICA – PT. Aneka Asia Buana		



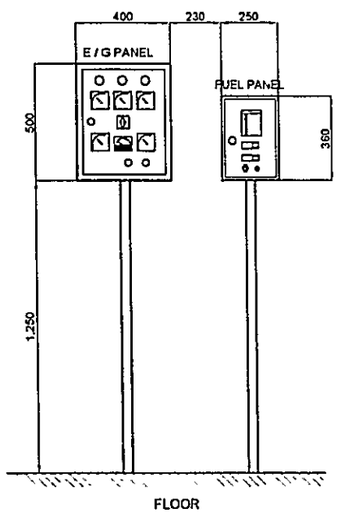
LEGEND

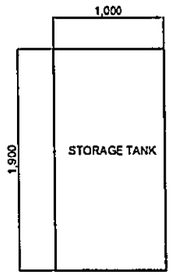
AVR . AUTOMATIC VOLTAGE REGULATOR
IST . ISOLATION TRANSFORMER
PDB POWER DISTRIBUTION BOARD
SUT . STEP - UP TRANSFORMER

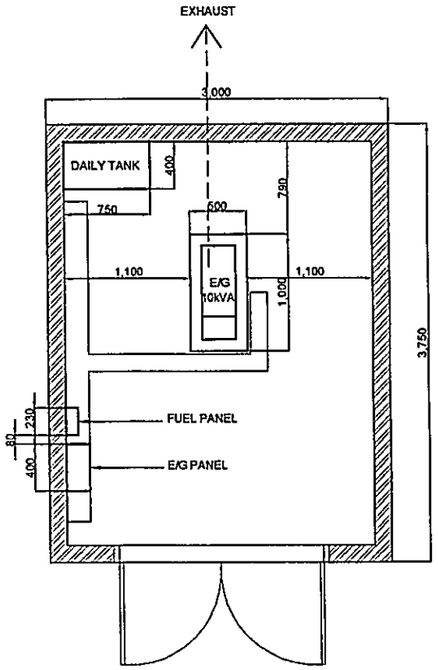
DRAWN BY AAB
APPROVED BY JICA :

DATE: July 13, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: MANOKWARI	
DIMENSION: Milimeter	DRAWING NO.: SROP-MNK-208-3	

JICA – PT. Aneka Asia Buana







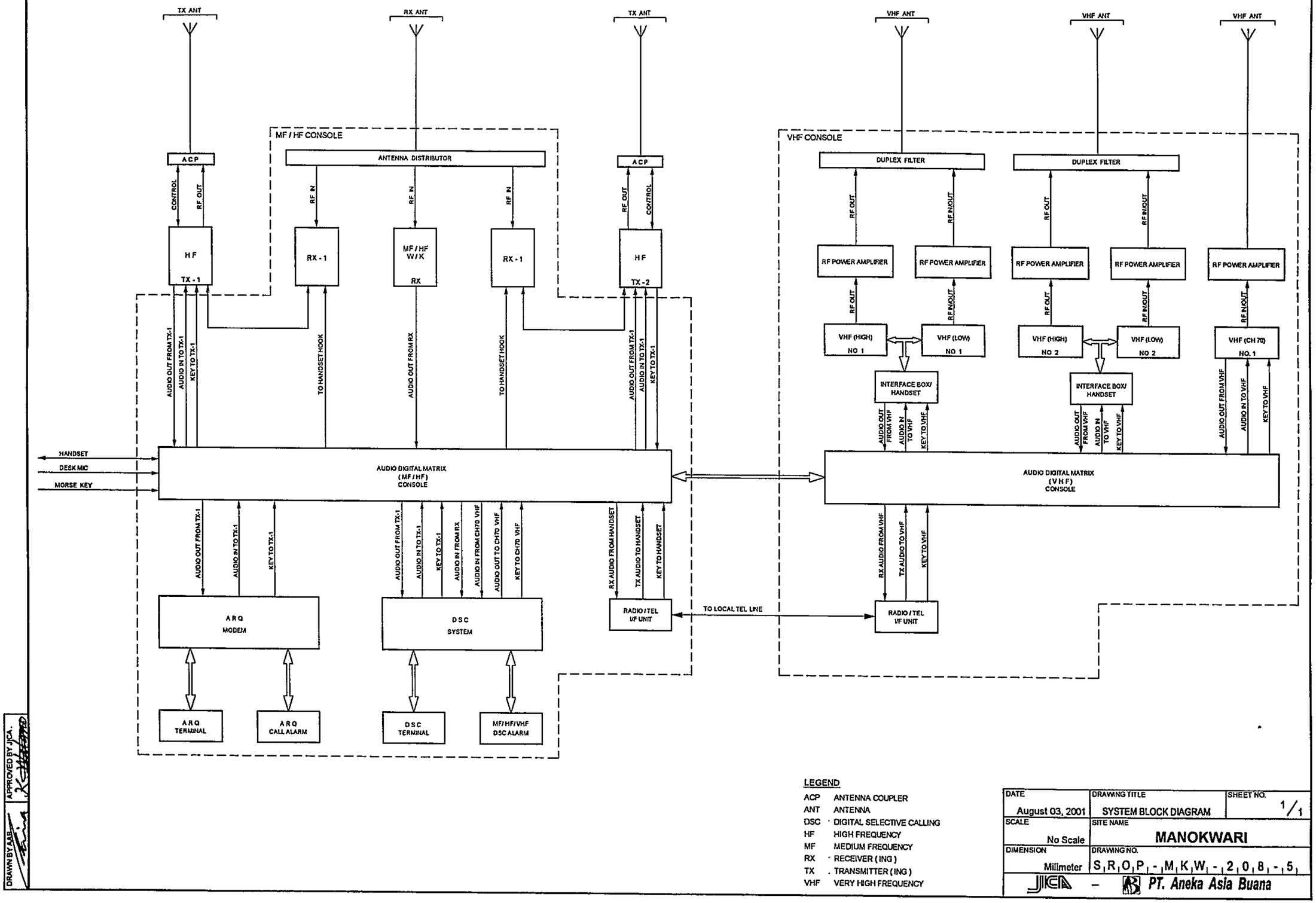
LEGEND

E/G ENGINE GENERATOR
kVA . KILO VOLT AMPERE

DRAWN BY AAB

APPROVED BY JICA

DATE: July 13, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 50 / 1 : 25	SITE NAME: MANOKWARI	
DIMENSION: Milimeter	DRAWING NO.: SROP-MNK-208-4	
JICA – PT. Aneka Asia Buana		



LEGEND

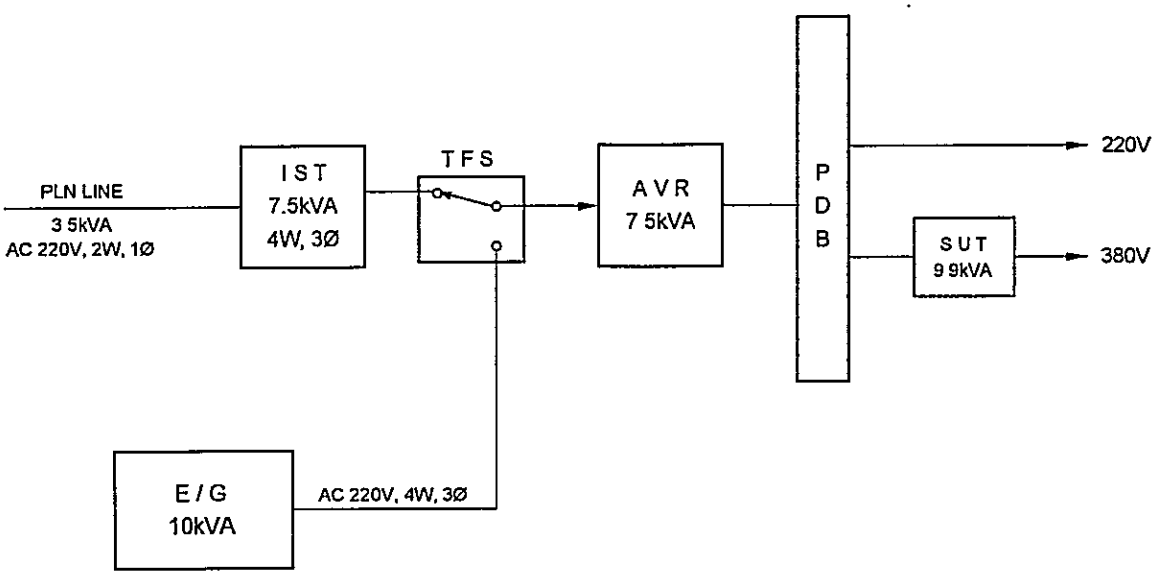
ACP	ANTENNA COUPLER
ANT	ANTENNA
DSC	DIGITAL SELECTIVE CALLING
HF	HIGH FREQUENCY
MF	MEDIUM FREQUENCY
RX	RECEIVER (ING)
TX	TRANSMITTER (ING)
VHF	VERY HIGH FREQUENCY

DRAWN BY AAB

APPROVED BY JICA.

DATE: August 03, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: MANOKWARI	
DIMENSION: Millimeter	DRAWING NO.: SROP-MKW-2085	

JICA – PT. Aneka Asia Buana



LEGEND

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

DRAWN BY AAB

APPROVED BY JICA

DATE: August 03, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: MANOKWARI	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,M,K,W,-,2,0,8,-,6,	
JICA – PT. Aneka Asia Buana		

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

4th-A Class Coast Station
Fak-fak
(Coast Station No. 209)

Table of Content

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

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	FAK-FAK		
CLASS	4th-A	NO.	209

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Desa Sorpeha, Kel. Danaweira			132° 17′ 56″ E	02° 56′ 02″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Biak	[Taking time: 6·10 hr.]	☐ Highway	☐ Heavy	☑ Hotel	100,000
By Air	to Manokwari	[Taking time: 1 00 hr.]	☑ Paved	☑ Medium	☐ Motel	
By Air	to Fak-Fak	[Taking time: 1 00 hr.]	☐ Unpaved road	☐ Light		
				☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system	
				Yes	No
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	☑	☐ Antenna
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑	☐ Towers (Masts)
☐ Hill-top	☐ Swampy	☑ Rocky	☐ Rain Leakage	☑	☐ Grounding system
☐ Basin	☐ Clay		☐ Ground Subsidence	☑	☐ Lightning system
☐ Valley	☐ Sandy		☑ Leakage	☑	☐ Feeder Cable Way
Altitude	32.00 M		Telephone Lines	☑	☐ City water
Land area	625 00 m²		☐ Lines	☐	☑

3.2 Building Conditions

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

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220/380 V
Phase	1	3
Wire	2	4
kVA	3.5	10

Quality of PLN source		
Fluctuations	220 V ± 10 %	
Availability of power per day	24 Hours	
Power interruption /month	3 Times	
Total interpt. hours /month	0.5 Hours	
Max. interpt. hours at once	Hours	

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

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

E/G Stand-by System

☑ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Spare part replacement
Examples of major failure	Spare part
Sufficiency of spares	Supply not available

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

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

5. PERSONNEL FORMATIONS

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

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	FAK-FAK		
CLASS	4th-A	NO.	209

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	24			1999			
2000					1995	36			2000			

7. COMMENTS

Suggestion	There is no site access road to the site location and the location is surrounding by palm and nutmeg plantation
Remarks	

INVENTORY

Site Name: Fak Fak

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**MF/HF System**							
1-1-1		**MF/HF Receiver**							
1		All Wave Receiver	FRG-7700	M1H-100403	Yaesu	1982			
2		All Wave Receiver	FRG-8800	9D310085	Yaesu	1990			
1-1-2		**MF/HF Operation Console**							
1		MF/HF Console	RH-16-3	014	JRC	1996			
2		MF/HF Equipment							
		600 W MF/HF Transmitter	T2131	520497	Sailor	1996	F-TA-193. PH3		Good
		600 W MF/HF Transmitter	T2131	520498	Sailor	1996	F-TA-193: PH3		Good
		AC Power Supply	N2171	482649	Sailor	1996	F-TA-193 PH3		Good
		AC Power Supply	N2171	438419	Sailor	1996	F-TA-193· PH3		Good
		Antenna Coupler	AT2112	520966	Sailor	1996	F-TA-193: PH3		Good
		Antenna Coupler	AT2112	520965	Sailor	1996	F-TA-193: PH3		Good
		CW Unit	H2185	522734	Sailor	1996	F-TA-193: PH3		Good
		CW Unit	H2185	522733	Sailor	1996	F-TA-193: PH3		Good
3		All Wave Receiver							
		Control Unit HF1	RE2100	521635	Sailor	1996	F-TA-193· PH3		Good
		Control Unit HF2	RE2100	521652	Sailor	1996	F-TA-193: PH3		Good
		Duplex Receiver	R2120T	518075	Sailor	1996	F-TA-193: PH3		Good
		Duplex Receiver	R2120T	518072	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
4		Spot Receiver		522690					
		MF/HF DSC W/K RX	RM2150	522772	Sailor	1996	F-TA-193: PH3		Good
		Power Supply	N2165		Sailor	1996	F-TA-193: PH3		Good
5		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

INVENTORY

Site Name: Fak Fak

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
		CPU I/O	TT-10123		Sailor	1996	F-TA-193: PH3		Good
		Paralel	TT-101190		Sailor	1996	F-TA-193· PH3		Good
		Paralel I/O	TT-101217		Sailor	1996	F-TA-193: PH3		Good
		• VHF Modem	TT-102239		Sailor	1996	F-TA-193: PH3		Good
		HF Modem	TT-1022337		Sailor	1996	F-TA-193: PH3		Good
		Modem I/O	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	3503V5	Compaq	1996	F-TA-193: PH3		Good
		2) Monitor	140	530AF05CE319	Compaq	1996	F-TA-193· PH3		Good
		Printer (H-1252A)	TT-1608C	5CAP319330K	Sailor	1996	F-TA-193: PH3		Good
		Monitor Display	TT-3602B	9603551	Sailor	1996	F-TA-193: PH3		Good
		DSC Alarm	TT-1542B		Sailor	1996	F-TA-193· PH3		Good
6		Signal Control Panel							
		Audio/Digital Matrix	MTX-1616	116	Sailor	1996	F-TA-193: PH3		Good
		Keyer	KK-1	362	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
7		Telephone Repeater (Phone Patch)							
		Radio/Tel I/F Unit	RTU-282	210	Sailor	1996	F-TA-193: PH3		Good
8		ARQ Equipment							
		Radiotelex Modem	TT-1585E	9603511	Sailor	1996	F-TA-193. PH3		Good
		ARQ Key Board	TT-1601 A	9603541	Sailor	1996	F-TA-193. PH3		Good
		Printer (H1252A)	TT-1680C	5CAP3193372	Sailor	1996	F-TA-193: PH3		Good
		Telex Alarm	TT-1542B		Sailor	1996	F-TA-193· PH3		Good
1-2		**VHF System**							
1-2-1		**VHF Receiver**							
1		FM/AM Multi Band Receiver	ICF-6800W		Sony				

INVENTORY

Site Name: Fak Fak

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1-2-2		**VHF Operation Console**							
1		Operation Console	RH-16-1		Sailor	1996	F-TA-193: PH3		Good
2		Multichannel VHF Transceiver							
		VHF Transceiver	RT 2048	523713	Sailor	1996	F-TA-193. PH3		Good
		VHF Transceiver	RT 2048	523694	Sailor	1996	F-TA-193: PH3		Good
		VHF Transceiver	RT 2048	523695	Sailor	1996	F-TA-193: PH3		Good
		VHF Transceiver	RT 2048	523709	Sailor	1996	F-TA-193: PH3		Good
		Linier Power Amplifier	A2080BE-H	235	Sailor	1996	F-TA-193: PH3		Good
		Linier Power Amplifier	A2080BE-H	296	Sailor	1996	F-TA-193: PH3		Good
		Linier Power Amplifier	A2080BE-H	259	Sailor	1996	F-TA-193: PH3		Good
		Linier Power Amplifier	A2080BE-H	309	Sailor	1996	F-TA-193: PH3		Good
		Duplex Filter		237207	Sailor	1996	F-TA-193: PH3		Good
		Duplex Filter		237197	Sailor	1996	F-TA-193 PH3		Good
2		CH-70 VHF T/R							
		VHF Transceiver	RT2048	523682	Sailor	1996	F-TA-193: PH3		Good
		High Low I/F Unit (2)			Sailor	1996	F-TA-193: PH3		Good
		RF Power Amplifier	A2080BE-H	562	Sailor	1996	F-TA-193: PH3		Good
		AC Power Supply	N163S	S16306	Sailor	1996	F-TA-193: PH3		Good
		DC Power Supply	N420	N42006	Sailor	1996	F-TA-193: PH3		Good
		AC Power Supply	PSF-1	TWR/12770/045	Sailor	1996	F-TA-193: PH3		Good
3		Term Equipt. (DSC VHF/HF)							
		Audio/Digital Matrix	MTX-1616	157	Sailor	1996	F-TA-193: PH3		Good
4		Telephone Repeater							
		Radio/Tel I/F Unit	RTU-280	195	Sailor	1996	F-TA-193: PH3		Good
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
1		30mH Self Supporting Structure	AT30SS		Sailor	1996	F-TA-193: PH3		Good
2		20mH Self Supporting Structure (2)	AT20SS		Sailor	1996	F-TA-193· PH3		Good
3		Lightning Protector (3)			Sailor	1996	F-TA-193: PH3		Good
4		Grounding (3)			Sailor	1996	F-TA-193· PH3		Good

INVENTORY

Site Name: Fak Fak

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
2-2		**Antenna System**							
1		Cell Wave Antenna							
2		I/L Antenna for T/R (2)	HF7		Sailor	1996	F-TA-193: PH3		Good
3		D/D Antenna	E-22		Sailor	1996	F-TA-193: PH3		Good
4		VHF Antenna (3)	VHF 3		Sailor	1996	F-TA-193 PH3		Good
2-3		**Antenna Selector**							
1		Antenna Distributor	AAD/1/A						
2		Antenna Distributor	AAD10/1/A-J1-6G	001014	Sailor	1996	F-TA-193· PH3		Good
3		**Power Supply Equipment**							
3-1		**Power Distribution Board**							
1		Power Distribution Board	072HZ	1150297					
2		7.5kVA PDB for TX/RX			Sailor	1996	F-TA-193: PH3		Good
3		10 kVA Control Panel (AMF)	PL 95-7s	9504	Sailor	1996	F-TA-193: PH3		Good
3-2		**Isolation Transformer**							
1		Isolation Transformer	IST						
2		7.5kVA, 4W, 3P	IST 10P3	9504	Sailor	1996	F-TA-193: PH3		Good
3-3		**Step-Up Transformer**							
1		9.9kVA, 4W, 3P	STU 10P3	9504	Sailor	1996	F-TA-193 PH3		Good
3-4		**UPS & AVR**							
1		AVR (3 Group)	AVR7PS	9507					
		50W Stanilite Power Supply	FM-1250-89	TWR/12770/045					
3-5		**Engine Generator**							
1		10 kVA E/G Single Standby System				1996	F-TA-193: PH3		Good
		Engine	EG 10 RA	664670	KUBOTA	1996	F-TA-193. PH3		Good
		Generator	V-1505E	CO51684/1	STAMFORD	1996	F-TA-193. PH3		Good
		E/G Panel	BC1-164-D	9501	Sailor	1996	F-TA-193. PH3		Good
2		Fuel System							
		Starting, Fuel, Exhaust System				1996	F-TA-193. PH3		Good
		Fuel Control Unit				1996	F-TA-193. PH3		Good
		100 L Fuel Day Tank				1996	F-TA-193: PH3		Good
		1000 L Fuel Storage Tank				1996	F-TA-193: PH3		Good
		Single Phase AC Motor	JY09-A						
		Gear Pump							

INVENTORY

Site Name: Fak Fak

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
4		**Measuring Equipment**							
1		Analog Oscilloscope	PM3065	DM639014	Sailor	1996	F-TA-193· PH3		Good
		Probe/Lead (2)							
		Power Cable (1)							
		Black Cover (1)							
		Operation Manual							
2		Multimeter	Fluke 87	64460303	Sailor	1996	F-TA-193: PH3		Good
		Multimeter	Fluke 87	64460302	Sailor	1996	F-TA-193 PH3		Good
		Multimeter	Fluke 87	64460301	Sailor	1996	F-TA-193: PH3		Good
		Test Lead Set (3x1)							
		Hoester House Yellow (3x1)							
		User Manual (3x2)							
3		Insulation Tester	2406A	65WA1531	Sailor	1996	F-TA-193: PH3		Good
		Line Plobe (1)							
		Earth Plobe (1)							
		Carrying Case x1)							
		Instruction Manual (1)							
4		RF Coaxial Load Resistor	8201	17080	Sailor	1996	F-TA-193: PH3		Good
		RF Coaxial Load Resistor	8201	17095	Sailor	1996	F-TA-193: PH3		Good
		Connection Cable (1)							
5		**Others**							
1		Telephone set with call timer (2)			Sailor	1996	F-TA-193: PH3		Good
2		Headset (2)	DM 811		Sailor	1996	F-TA-193: PH3		Good
3		Hand set (6)			Sailor	1996	F-TA-193: PH3		Good
4		Desk Microphone (2)	DM 6500		Sailor	1996	F-TA-193. PH3		Good
5		Quartz Clock			Sailor	1996	F-TA-193: PH3		Good
6		Services Engineers Kit	RS 541-365		Sailor	1996	F-TA-193: PH3		Good
7		Mouse			Sailor	1996	F-TA-193. PH3		Good
8		Chair			Sailor	1996	F-TA-193: PH3		Good

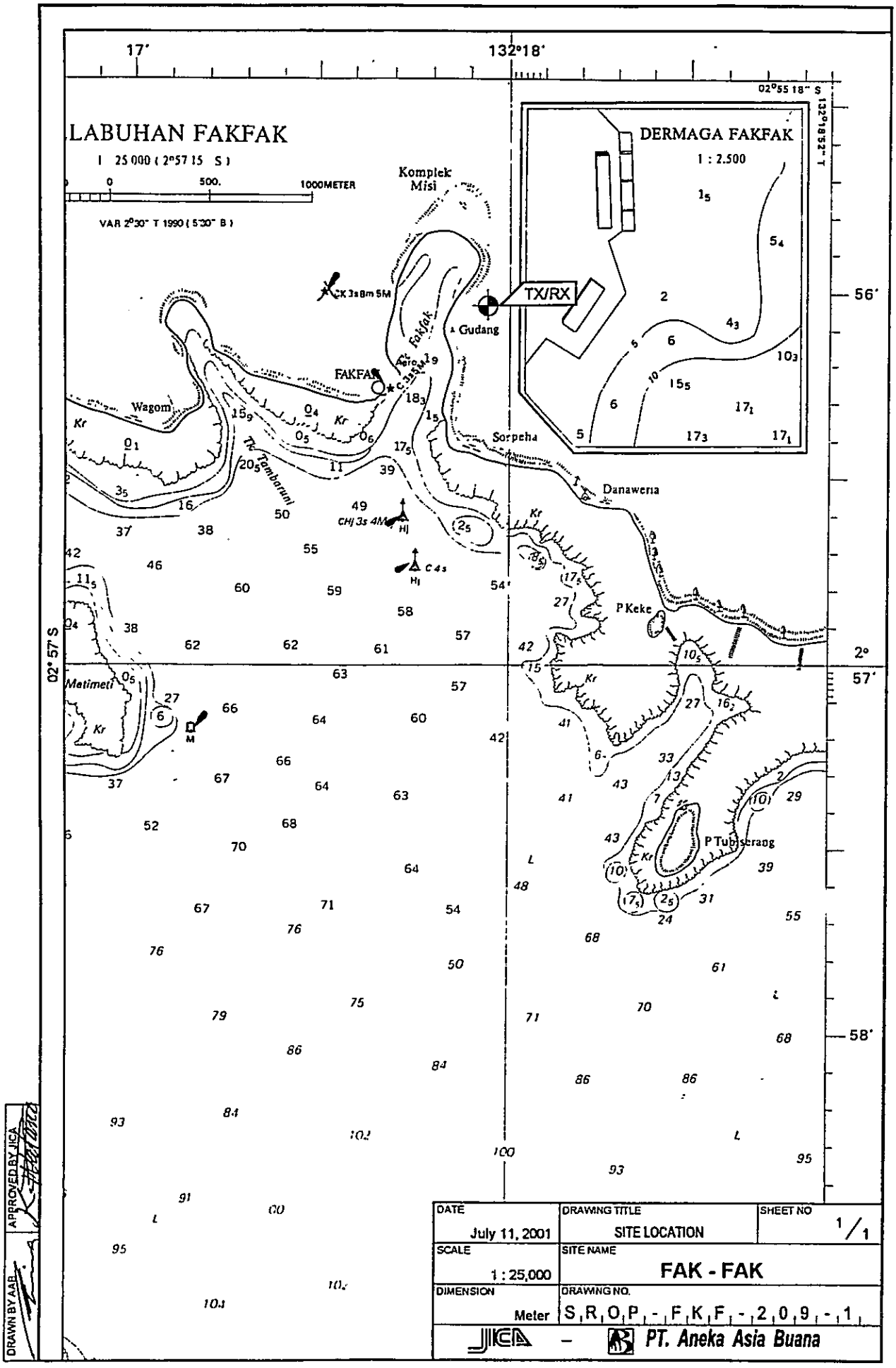
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Fak-Fak

FKF-209-(1/1)

Call Sign : Mobile Service : PKY.23
Fix Service .

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2174,5	F1B	500		
2	2177,0	F1B	500		
3	2187,5	F1B	500		
4	6331,0	F1B	500		
5	2182,0	J3E	100		
6	8422,0	J3E	100		
7	6215,0	J3E	100		
8	6510,0	J3E	100		
	VHF Service				
9	Channel-16	G2B	50		
10	Channel-20	G3E	50		
11	Channel-70	G3E	50		
	Fix Service				
12	6926,0	J3E	150		
13	9925,0	J3E	150		
14	10225,0	J3E	150		
15	5381,5	J3E	150		
16					
17					
18					
19					
20					
21					
22					
23					



DATE: July 11, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 : 25,000	SITE NAME: FAK - FAK	
DIMENSION: Meter	DRAWING NO.: S,R,O,P,-,F,K,F,-,2,0,9,-,1	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA

DRAWN BY AAR

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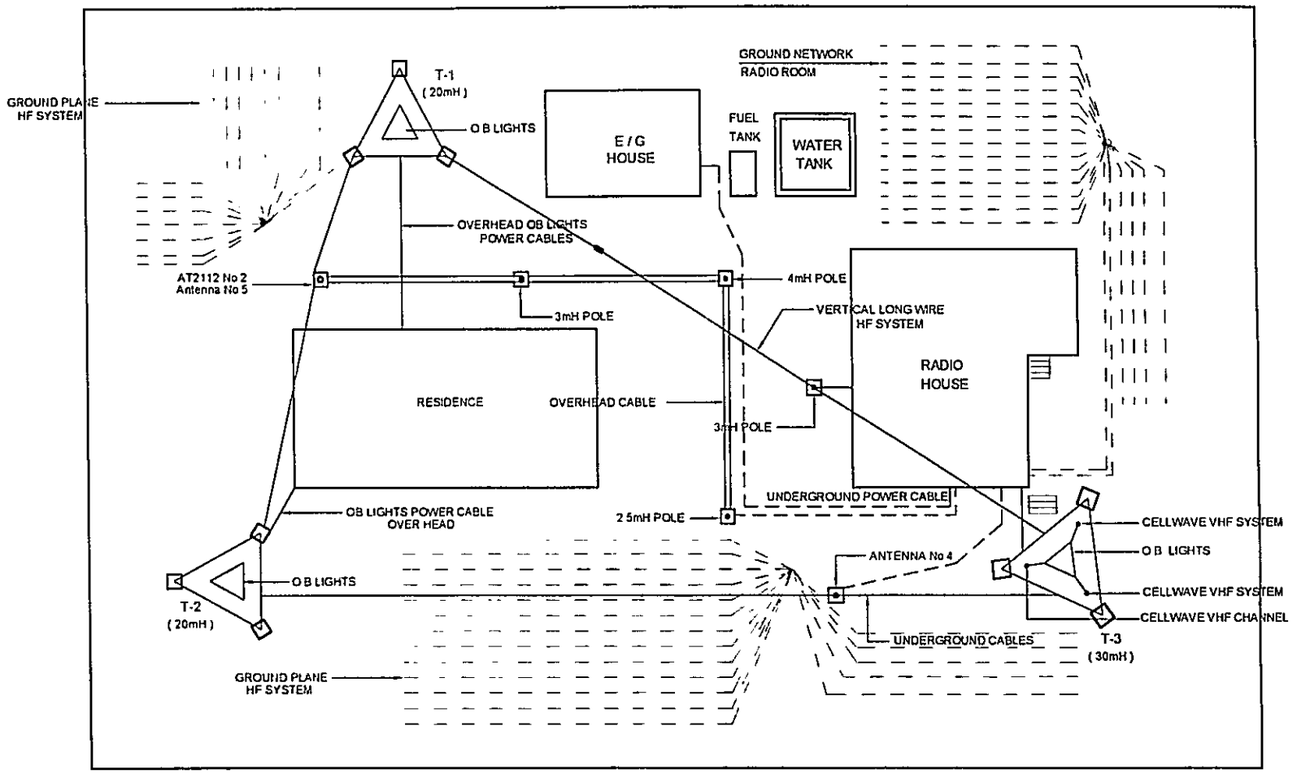
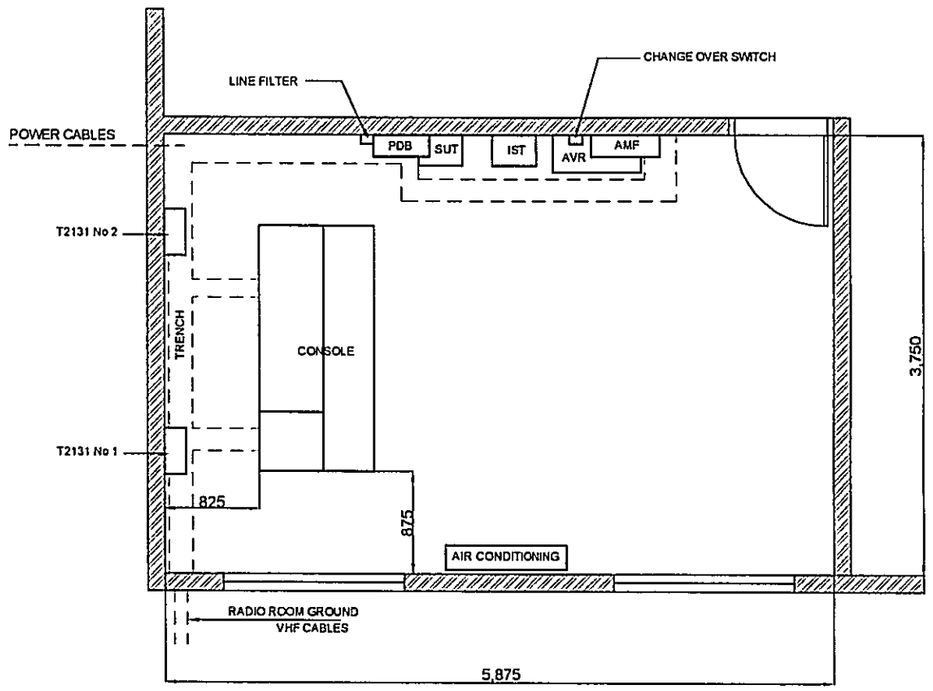


DRAWN BY AAB

APPROVED BY JICA

DATE: July 13, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 500	SITE NAME: FAK-FAK	
DIMENSION: Milimeter	DRAWING NO: SRO P-FKF-209-2	
JICA – PT. Aneka Asia Buana		



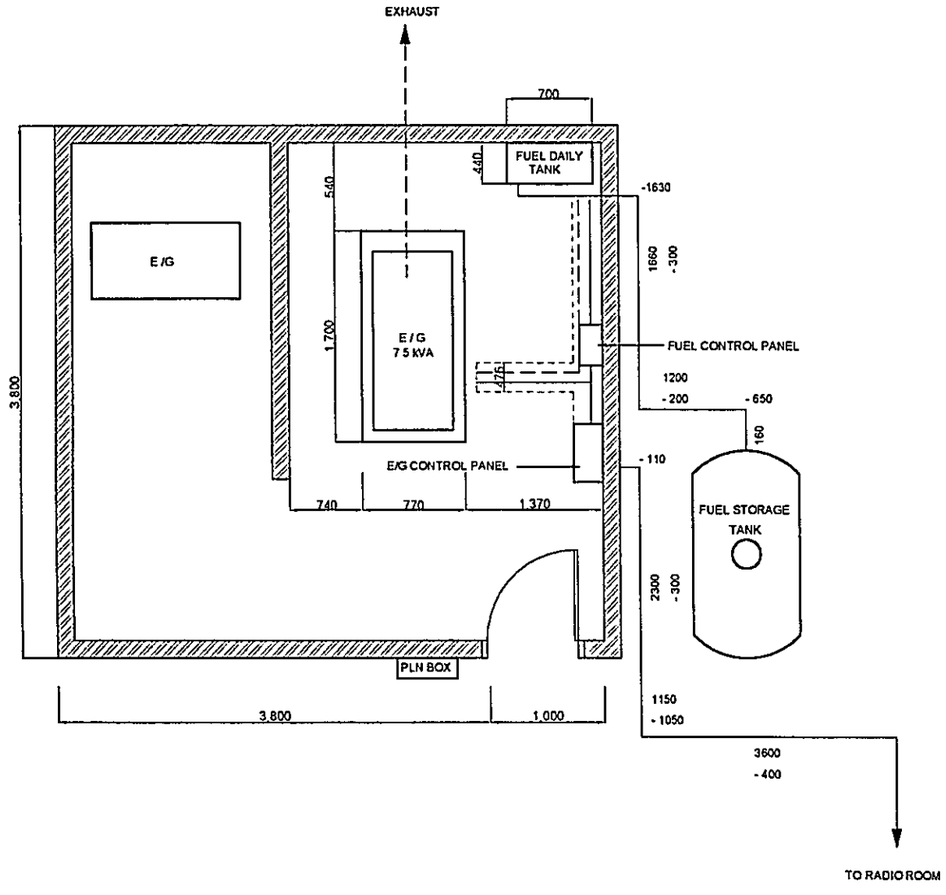
LEGEND

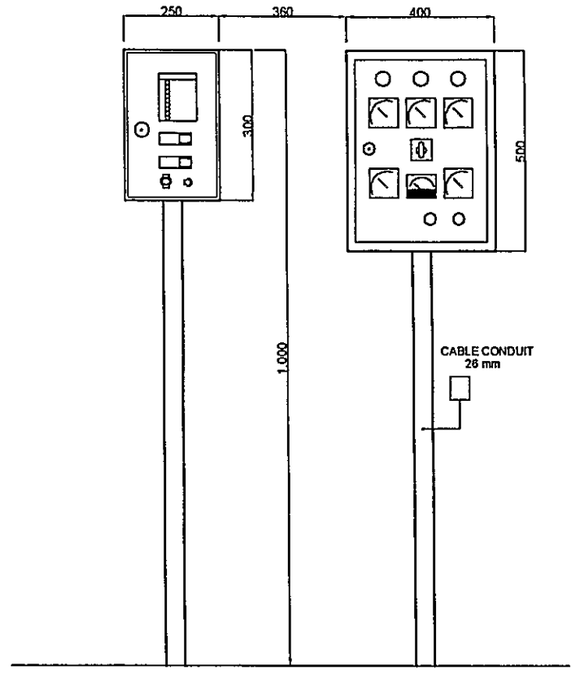
AVR . AUTOMATIC VOLTAGE REGULATOR
IST . ISOLATION TRANSFORMER
PDB . POWER DISTRIBUTION BOARD
SUT . STEP - UP TRANSFORMER

DRAWN BY AAB
APPROVED BY JICA

DATE: July 13, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: FAK-FAK	
DIMENSION: Milimeter	DRAWING NO: SROP-FKF-209-3	

JICA – PT. Aneka Asia Buana





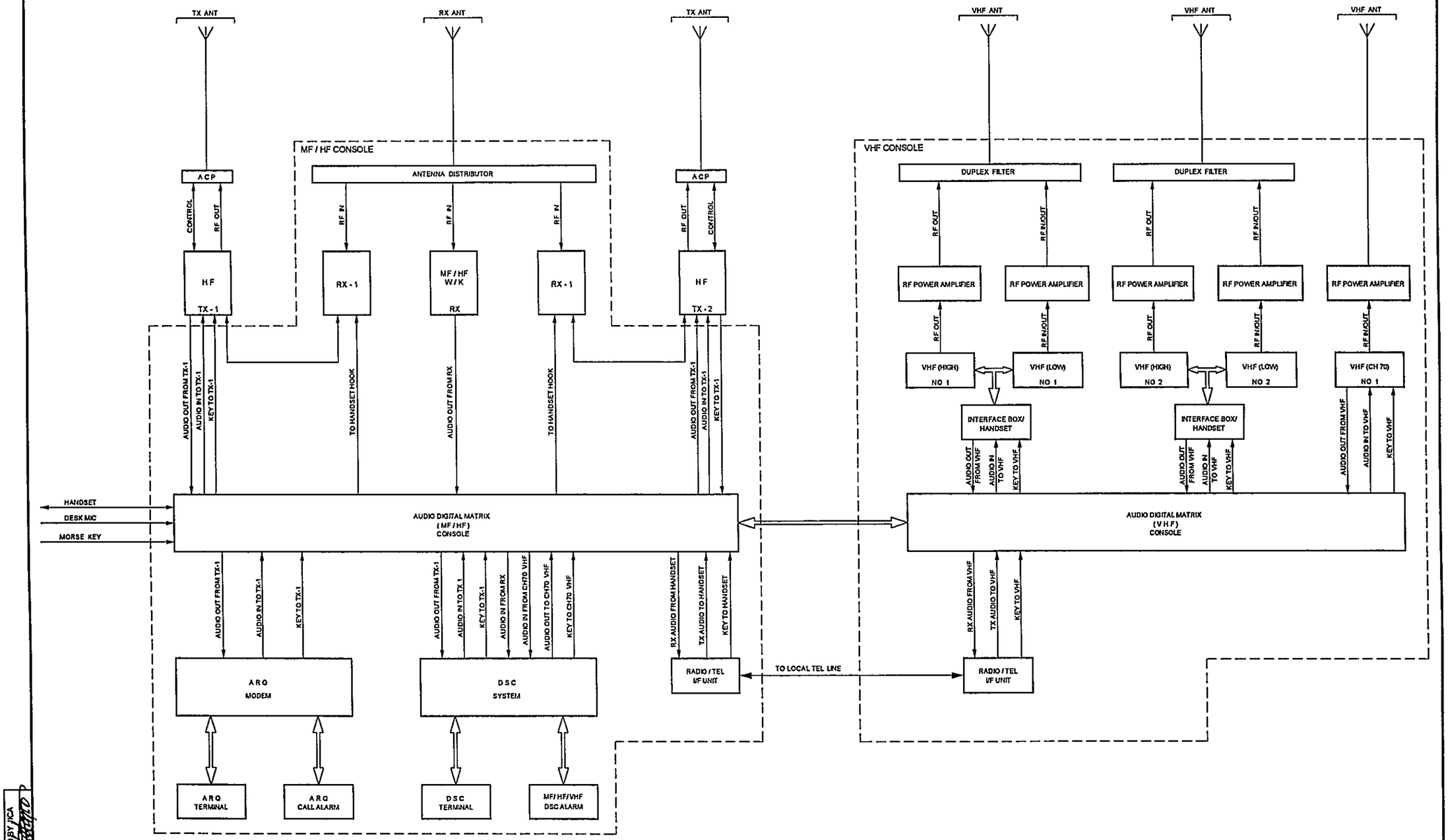
LEGEND

E/G : ENGINE GENERATOR
kVA : KILO VOLT AMPERE

DRAWN BY AAB
APPROVED BY JICA:

DATE: July 13, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50 / 1 : 25	SITE NAME: FAK-FAK	
DIMENSION: Millimeter	DRAWING NO: SROP-FKF-2094-4	

JICA – PT. Aneka Asia Buana



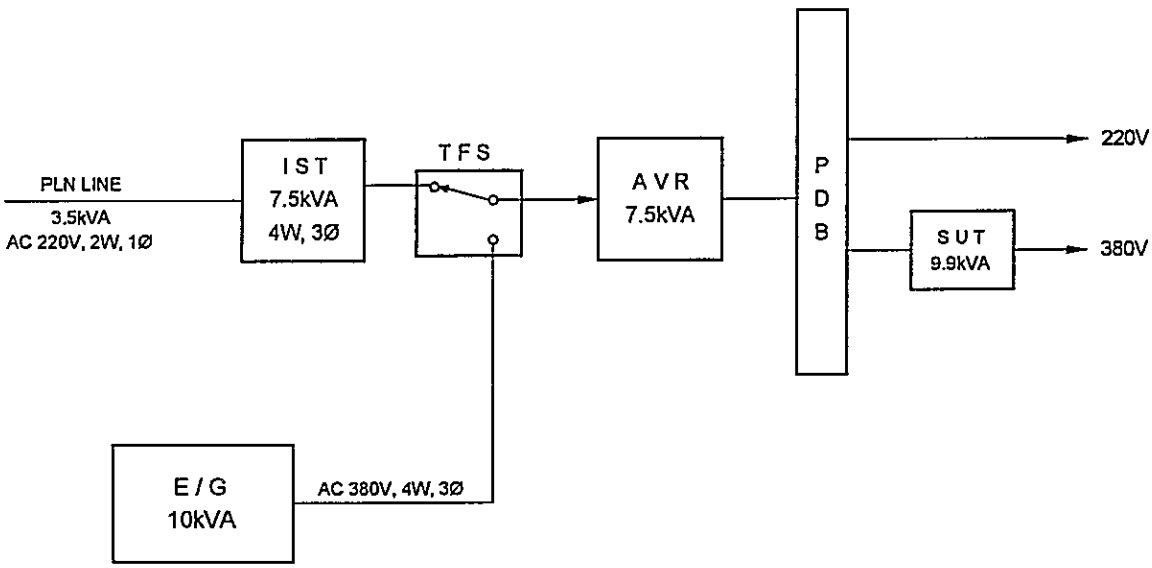
LEGEND

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

DRAWN BY AAB

APPROVED BY JICA

DATE: August 03, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: FAK-FAK	
DIMENSION: Milimeter	DRAWING NO: SROP-FKF-2091-5	
JICA –	PT. Aneka Asia Buana	



LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: August 03, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: FAK-FAK	
DIMENSION: Milimeter	DRAWING NO: SROP-FKF-209-6	
JICA – PT. Aneka Asia Buana		